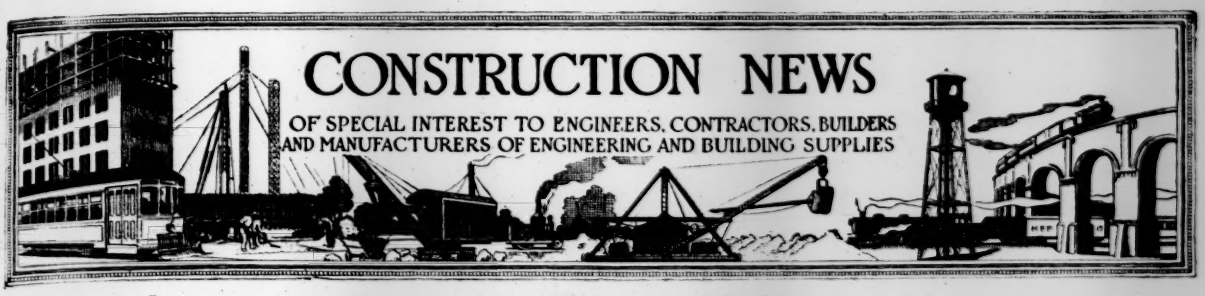

CONSTRUCTION NEWS

OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

Price advances are indicated by heavy type; declines by *italics*.

PIG IRON—

	Current	One Month Ago
CINCINNATI		
No. 2 Southern	$30.35	$30.35
Northern Basic	27.55	27.55
Southern Ohio No. 2	28.55	28.25
NEW YORK, tidewater delivery		
2X Virginia (silicon 2.25 to 2.75)	32.40	31.90
Southern No. 2 (silicon 2.25 to 2.75)	35.20	33.95
BIRMINGHAM		
No. 2 Foundry	28.00	26.25
PHILADELPHIA		
Eastern Pa.	30.65*	30.65
Virginia No. 2	32.10-34.10†	30.85
Basic	30.90*	30.90
Grey Forge	29.90*	30.90
CHICAGO		
No. 2 Foundry Local	26.75	26.75
No. 2 Foundry Southern	*28.00*	31.75
PITTSBURGH, including freight charge from the Valley		
No. 2 Foundry Valley	28.15	28.15
Basic	27.15	27.15
Bessemer	29.35	29.35

*F. o. b. furnace. † Delivered.

RAILWAY SUPPLIES

STEEL RAILS—The following quotations are per ton f. o. b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh		Chicago	
	Current	One Year Ago	Current	One Year Ago
Standard bessemer rails	$45.00	$55.00	$45.00	$65.00
Standard openhearth rails	47.00	57.00	47.00	67.00
Light rails, 8 to 10 lb.	2.58½*	3.13*	2.83½*	3.13½*
Light rails, 12 to 14 lb.	2.54*	3.09*	2.79*	3.09*
Light rails, 25 to 45 lb.	2.45*	3.00	2.70*	3.00*

*Per 100 lb.

TRACK SUPPLIES—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Pittsburgh				San Francisco
	Current	One Year Ago	Chicago	St. Louis	
Standard spikes, ⅝-in. and larger	$3.35	$3.90	$4.27	$4.44	$5.65
Track bolts	4.35	4.90	5.17	Premium	6.65
Standard section angle bars	3.00	3.25	4.22	Premium	4.60

RAILWAY TIES—For fair-sized orders, the following prices per tie hold:

		7 In. x 9 In. by 8 Ft. 6 In.	6 In. x 8 In by 8 Ft.
Chicago	Plain	$1.48	$1.33
San Francisco	Douglas Fir—Green	1.42	1.00
San Francisco	Douglas Fir—Creosoted	*2.12*	*2.00*

Prices per tie at Missouri mills; St. Louis prices about 25c. higher:

Untreated A Grade White Oak 6x8x8		Untreated A Grade Red Oak 6x8x8	
No. 1	$0.70	No. 1	$0.55
No. 2	.80	No. 2	.65
No. 3	.90	No. 3	.75
No. 4	.98		
7x9x8 white oak			1.05
7x9x8 red oak (No. 4)	$0.80	No. 5	.87

Note.—Add 36c. each for treatment.

PIPE

STEEL—From warehouses at the places named the following discounts hold for steel pipe:

	Black		
	New York	Chicago	St. Louis
⅛ to 3 in. butt welded	47%	57.5%	45%
2½ to 6 in. lap welded	42%	53.5%	41½%

	Galvanized		
	New York	Chicago	St. Louis
⅛ to 3 in. butt welded	31%	44%	30½%
2½ to 6 in. lap welded	27%	41%	27½%

Malleable fittings, Class B and C, from New York stock sell at +12½% list prices. Cast iron, standard sizes, 10% off.

CAST-IRON PIPE—The following are prices per net ton for carload lots:

	New York						
	Current	One Month Ago	One Year Ago	Chicago	St. Louis	San Francisco	Dallas
4 in.	$55.30	$53.00	$64.75	$56.80	$50.00	$77.55	$65.00
6 in. and over	52.30	50.00	61.75	53.80	47.00	74.55	62.00

Gas pipe and 16-ft. lengths are $1 per ton extra.

PIPE—The following discounts are for carload lots f.o.b. Pittsburgh: basing card of National Tube Co. for steel pipe, Cardry A. M. Byer's Co. for iron, both dated Mar. 21, 1919.

BUTT WELD

Steel Inches	Black	Galvanized	Iron Inches	Black	Galvanized
⅛, ¼ and ⅜	50½%	24%	⅜ to 1¼	39½%	23½%
½	54½%	40%			
¾ to 3	57½%	44%			

LAP WELD

2	50½%	35%	2	32½%	18½%
2½ to 6	53½%	41%	2½ to 6	34½%	21½%

BUTT WELD, EXTRA STRONG PLAIN ENDS

⅛, ¼ and ⅜	46½%	29%	½ to 1¼	39½%	24½%
½	51½%	39%			
¾ to 1¼	55½%	43%			

LAP WELD, EXTRA STRONG PLAIN ENDS

2	48½%	37%	2	33½%	20½%
2½ to 4	51½%	40%	2½ to 4	35½%	23½%
4½ to 6	50½%	39%	4½ to 6	34½%	22½%

Malleable fittings. Class B and C, banded from New York stock sell at list 2% off. Cast iron, standard sizes, 20% off.

CLAY DRAIN TILE—The following prices are per 1000 lin.ft.:

	New York					
Size, In.	Current	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$35.00	$35.00	$22.50	$30.00		$33.44
4	51.00	51.00	27.00	40.00	$45.00	50.16
5	65.00	65.00	45.00	50.00	65.00	62.70
6	90.00	90.00	55.00	60.00	90.00	83.60
8	130.00	130.00	100.00	80.80	150.00	133.76

SEWER PIPE—The following prices are in cents per foot for carload lots:

	New York					
Size, In.	Current	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$0.081	$0.126	.....	$0.09	$0.09	$0.132
4	.081	.126	.....	.09	.15	.132
5	.1215	.189	.....	.135	.1875	.207
6	.1215	.189	$0.16	.135	.225	.207
8	.189	.294	.21	.21	.3475	.2875
10	.283	.441	.29	.315	.45	.4025
12	.365	.567	.37	.405	.60	.5175
15	.480	.766	.56	.54	.9375	.7475
18	.675	1.05	.91	.875	1.275	.9775
20	.81	1.26	1.14	1.05	1.71	1.15
22	1.08	1.68	1.46	1.40	.....	1.495
24	1.215	1.935	1.56	1.80	2.125	1.725
27	2.015	2.795	1.90	2.75	.....	2.5875
30	2.232	3.096	2.57	3.45	.....	3.1625
33	2.79	4.05	3.09	4.00	.....	4.025
36	3.18	4.6125	3.37	4.35	.....	4.60

	3	5	8	12	24	36
Boston	*$0.078*	*$0.117*	*$0.182*	*$0.351*	*$1.17*	*$3.28*
St. Paul	.12	.18	.28	.45	2.00	4.75
Denver	.105	.16	.25	.425	1.575	.....
Seattle	.15	.....	.3375	.64	2.00	.....
Kansas City	.12	.18	.25	.50	1.80	4.60
Los Angeles	.0825†	.1375†	.2475	.44	1.50†	.....
New Orleans			50 per cent. off			
Cincinnati	.08	.12	.19	.36½	1.21½	2.76½
Atlanta	....	....	.34	.55	2.00	....
Montreal			40 per cent. off			
Winnipeg	.09	.16	.30	.50	2.00	.....
Detroit	.081	.1215	.189	.3645	1.215	2.7675
Baltimore	.114	.171	.266	.513	1.71	.....

†4-in., 6-in., 30-in. respectively.

ROAD AND PAVING MATERIALS

ROAD OILS—Following are prices per gallon in tank cars 8000 gal. minimum f.o.b. place named:

	Current	One Month Ago
New York, 45-65% asphalt	*$0.04½*	$0.04½
New York, liquid asphalt	.06	.06
New York, binder	.06½	.06½
New York, flux	.04½	.04½
St. Louis, 40% asphalt	.06	.06
Chicago, 15-20% asphalt	.10	.10
Chicago, 100% dust layer	.11	.11
Dallas, 40-50% asphalt	.07	.07
Dallas, 60-70% asphalt	.08	.08
Dallas, 75-90% asphalt	.10	.10
San Francisco, 75-95% asphalt, per bbl	2.10	2.10

ASPHALTUM—Price per ton in packages and bulk in carload lots:

	Brand	Package	Bulk
New York	Texaco	*$18.00*	*$14.00*
Chicago	Mexican	33.00	31.00
San Francisco	California	17.00	13.75
Dallas	Texaco and Mexican	32.00	30.00
Seattle	D grade	23.50	.....
Denver	Trinidad	45.00	.....
Denver	California	38.00	.....
St. Paul	Mexican	21.00	.....
Kansas City	Mexican	28.00	26.00
Atlanta	Standard	24.00	19.80
New Orleans		16.50	.....
St. Louis	Stanolind	24.90	18.40
Detroit	.....	48.00	.....
Baltimore		23.50	.....

PAVING STONE—

Chicago	About 4x8x4 dressed	$2.45	sq.yd.
	About 4x8x4 common	2.20	sq.yd.
San Francisco	Basalt block 4x7x8	57.75	per M
Kansas City	Granite	2.75	sq.yd.
Boston	5-in. granite	110.00	per M
St. Paul	Sandstone	1.75	sq.yd.
Atlanta	Granite	1.85	sq.yd.
Detroit	Granite, small	2.75	sq.yd.
Baltimore	Common	2.52	sq.yd.

FLAGGING—

New York	Bronx	$0.21	sq.ft.
	Manhattan	.22	sq.ft.
	Queens, 5 ft. square	.21	sq.ft.
	5x20-in. cross-walk	.75	lin.ft.
Chicago	18 in. wide	.70	lin.ft.

WOOD BLOCK PAVING—

	Size of Block	Treatment	Per Sq.Yd.
New York	3½	16	$3.25
New York	4	16	3.50
Chicago	4	16	3.10
Chicago	3½	16	2.95
Chicago	City specifications		3.10
St. Louis	3½	16	2.45
St. Louis	4	16	2.70
Seattle	4	16	2.55
Kansas City	4	16	3.00
St. Paul	3½	...	3.13
Atlanta	3½	16	2.25
Dallas	3½	18	3.17
Dallas	4	18	3.56
Baltimore	4 in.		3.60

CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yd.:

	Gravel 1½ In. Current	Gravel 1½ In. One Yr. Ago	Gravel ¾ In. Current	Gravel ¾ In. One Yr. Ago	Sand Current	Sand One Yr. Ago
New York	$2.00	$2.00	$2.00	$2.00	$1.25	$1.25
Denver	1.60	1.55	1.60	1.55	1.25	1.10
Chicago	1.35	1.45	1.35	1.45	1.35	1.00
Kansas City	2.50	2.15	3.00	2.25	1.00†	.80
St. Louis*	1.78	1.35	1.82	1.08	1.68	1.45
Seattle	1.25	1.00	1.25	.75	1.25	1.00
Dallas	2.50	2.00	2.50	1.50	2.25	1.40
St. Paul	1.25	1.25	1.35	1.40	.60	.60
San Francisco	1.15	1.00	1.00	1.00	1.15	1.00
Boston	1.60	2.00	1.60	1.60	1.00	1.50
New Orleans	2.50	....	....	.....	1.20	....
Cincinnati	....	1.35	....	.....	....	1.35
Atlanta	2.00‡	....	....	.....	1.10‡	....
Detroit	2.00	.....	2.00	.....	2.00	....
Baltimore	1.10	.....	1.30	.....	.50	....

*Fine white sand, Pacific and Ottawa per ton, $6. †Kaw River sand is $1.50 per yd. ‡ per ton.

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In. Current	1½ In. One Year Ago	¾ In. Current	¾ In. One Year Ago
New York	$1.65-1.75	$1.60	$1.75-1.85	$1.85
Chicago	1.30	1.20	1.30	1.20
St. Louis	1.40	1.08	1.40	1.08
Dallas	2.70	1.51	2.70	1.55
San Francisco	1.15	1.00	1.15	1.00
Boston	3.00*(del)	1.50	3.00*(del)	1.75
St. Paul (lime)	1.15†	1.15	1.25	1.40
Denver	....	1.55	1.60	1.55
Kansas City	1.90	1.70	2.00	1.80
Seattle	1.50	1.10	1.50	1.10
Atlanta	2.15*	....	2.25*	....
Cincinnati	....	1.50	....	1.50
Los Angeles	1.20	1.05	1.20	1.05
Detroit	2.00	....	2.00	....
Baltimore	1.25	.....	1.50	.....

*Per ton. †Limestone; traprock, $1.60 and $1.80 per ton for 1½ and ¾-in., respectfvely.

LIME—Warehouse prices:

	Hydrated per Ton Finished	Hydrated per Ton Common	Lump per 200-Lb. Barrel Finished	Lump per 200-Lb. Barrel Common
New York	$17.50	$14.50	$2.90*	$2.65*
Kansas City	22.00	21.00	2.30	2.20
Chicago	18.00	17.50	1.80	1.10
St. Louis	18.00	....	....	....
Boston	22.75	18.25	3.75*	3.40*
Dallas	30.00	.....	2.75	....
San Francisco	19.00	.....	....	2.00
St. Paul	23.00	20.00	1.60	1.50
New Orleans	....	10.00	....	11.00‡
Atlanta	....	1.90	1.75	1.90
Detroit	20.00	20.00	3.00*	2.85*
Seattle	30.00	.....	....	2.75†
Los Angeles	....	....	3.05†	2.80†
Baltimore	19.00	14.00	.....	.....

* 300-lb. barrels. † Per 180-lb. barrel. ‡ Per ton.
NOTE—Refund of 10c. per barrel.

NATURAL CEMENT—Price to dealers for 500 bbl. or over, f.o.b., exclusive of bags:

St. Paul (Austin)	$1.45
Kansas City (Ft. Scott)	1.40
New Orleans	2.52

PORTLAND CEMENT—Current prices are for barrels in carload lots, with bags, to contractors:

	Current	One Month Ago Without Bags	One Year Ago Without Bags	Current With Bags
New York	$2.30	$2.30	[illegible]	2.59
Jersey City	2.27	2.27		2.50
Boston	2.42	2.42		2.81
Chicago	2.00	2.00		2.90
Pittsburgh	2.05	2.05		2.45
Cleveland	2.32	2.32		2.15
Detroit	2.08	2.08		2.32
Indianapolis	2.27	2.27		2.62
Toledo	2.12	2.12		2.62
Milwaukee	2.11	2.11		2.56
Duluth	2.10	2.10		2.60
Peoria	2.12	2.12		2.56
Cedar Rapids	2.18	2.18		2.68
Davenport	2.14	2.14		2.64
St. Louis	2.20	2.20		2.70
San Francisco	2.43	2.40		2.88
New Orleans	2.36	2.36		
St. Paul	2.20	2.20		2.78
Denver	2.67	2.67		3.07
Kansas City	2.26	2.26		2.67
Seattle	2.53	2.53		3.33
Dallas	2.03	2.03		2.60
Atlanta	2.50	2.60		
Cincinnati	2.90	....		2.80

NOTE—Bag charge is generally 15c. each.

TRIANGLE MESH—Price per 100 sq.ft. in carload lots:

PLAIN 4-INCH x 4-INCH MESH

Style Number	Sectional Square Inches per Ft. Width	Area Pitts-burgh	New York	Chicago	St. Louis	Dallas	San Fran-cisco
032	0.032	$0.92	$1.16	$0.98	$0.99	$1.13	$1.32
049	0.049	1.18	1.48	1.26	1.26	1.43	1.67
068	0.068	1.44	1.86	1.53	1.56	1.79	2.06
093	0.093	1.85	2.39	1.97	2.00	2.41	2.65
126	0.126	2.28	3.02	2.43	2.47	2.92	3.28
153	0.153	2.72	3.59	2.90	2.95	3.48	3.93
180	0.180	3.12	4.13	3.33	3.39	3.99	....
245	0.245	4.12	5.44	4.40	4.47	5.27	....
287	0.287	4.76	6.29	5.08	5.16	6.10	6.82
336	0.336	5.52	7.30	5.89	5.99	7.06	....
395	0.395	6.40	8.45	6.83	6.94	8.19	....

PAVING

036P	0.036	$0.71	$0.92	$0.76	$1.77	$0.80	....
053P	0.053	1.00	1.28	1.06	1.08	1.12	....
072P	0.072	1.26	1.66	1.34	1.37	1.46	....
097P	0.097	1.62	2.12	1.73	1.76	1.88	....
049R	0.049	1.00	1.28	1.06	1.08	1.12	....
067R	0.067	1.26	1.65	1.34	1.37	1.46	....
089R	0.089	1.62	3.11	1.73	1.76	1.88	....

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths. Galvanized is about 10% higher.

EXPANDED METAL LATH—Prices in carload lots per 100 yd. for painted are as follows:

Gage	Weight	New York Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas
27	233	$29.10	$34.07	$29.00	$29.00	$34.00	$32.75
26	250	30.45	35.23	30.50	30.00	35.00	33.50
25	300	31.90	36.51	32.00	.....	37.00	36.25
24	340	33.50	37.73	33.00	33.00	40.25	39.25
22	450	36.60	40.48	.....	.....	.....	43.30

About 10% additional for smaller quantities.

BARS, CONCRETE REINFORCING—Following quotations are per 100 lb.:

ROLLED FROM BILLETS

In.	Mill Pittsburgh	New York Current	New York One Year Ago	Chicago	St. Louis	Dallas	San Francisco
¼ and larger	$2.35	$3.37	$4.14½	$3.37	$3.68	$4.75	$4.60
⅜	2.40	3.42	4.19½	3.42	3.74	4.80	4.65
½	2.45	3.47	4.24½	3.47	3.79	4.95	4.70
⅝	2.60	3.62	4.39½	3.62	4.04	5.00	4.85
¾	2.85	3.87	4.64½	4.87	4.19	5.05	5.10

Twisted bars cut to length take extra of 27½c. per 100 lb. Extra on deformed bars, uncut, 7½c.

ROLLED FROM RAILS

	Chicago	St. Louis	Dallas		Chicago	St. Louis	Dallas
¼ in. and larger	$3.45	$2.45	$4.25	⅝	$3.70	$2.70	....
⅜	3.50	2.50	4.30	¾	3.95	.....	....
½	3.55	2.55	....				

BRICK—To contractors price per 1000 in cargo or carload lots is as follows:

	Common Current	Common One Month Ago	Common One Year Ago	Paving Brick	Paving Block
New York	$15.00	$15.00	$14.00	No Quotations	
Chicago	12.00	12.00	11.00	....	....
St. Louis, selected	16.00*	16.00	16.00	$26.00	....
St. Louis, salmon	10.00	10.00	10.00	.....	.....
Denver	13.00†	12.00	10.00	.....	.....
Dallas	18.00	18.00	10.50	26.50	....
San Francisco	12.50	12.50	12.00	.....	.....
Boston	18.00	18.00	16.50	30.00	45.50
New Orleans	17.50	17.50	....	18.50	18.50
St. Paul	13.00	10.25	9.40	30.00	36.50
Kansas City	15.00	15.00	12.00	42.50	....
Seattle	15.00	15.00	15.00	36.00	....
Cincinnati	16.00	16.00	13.00	.....	.....
Atlanta	15.00	15.00	....	40.00	....
Los Angeles	12.50	12.50	7.00	.....	.....
Montreal	15.00	14.50	.....	80.00	.....
Detroit	19.00	.....	.....	36.00	40.00
Baltimore (del)	18.00	.....	.....	22.00	45.00

† Salmon is $12 in Denver.* Hard brick, $14.

HOLLOW TILE—Price per block in carload lots for hollow building tile:

	New York Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas	Factory Perth Amboy, N. J.
4x12x12	$0.11475*	$0.10125	$0.08	$0.08	$0.1125	$0.1088	.....
6x12x12	.153*	.13500	.112	.105	.15	.09	$0.1512
8x12x12	.204*	.....	.144	.15	.....	.115	.1944
10x12x12	.....	.....	.168	.173	.....	.2546	.2268
12x12x12	.....	.....	.208	.208	.....	.3082	.2916

*Delivered below 72nd St.

	4x12x12	8x12x12	12x12x12
	$0.10	$0.22	$0.30
Boston	.065	.135	.185
St. Paul	.0645	.12075	.1777
Cincinnati	.0786	.15	.205
Kansas City	.1250	.18	.25
Denver	.09	.175	.30
Seattle	.105	.135	.22
Atlanta	.082	.154	.236
Los Angeles	.165	.22	.325
New Orleans	.0842	.1579	.2264
Detroit	.....	.....	.....

STRUCTURAL MATERIAL—Following are base prices f.o.b. mill, Pittsburgh, together with quotations per 100 lb. from warehouses at places named:

	Mill Pittsburgh	New York Current	New York 1 Yr. Ago	St. Louis	Chicago	San Francisco	Dallas
Beams, 3 to 15 in.	$2.45	$3.47	$4.24½	$3.54	$3.47	$4.45	$4.50
Channels, 3 to 15 in.	2.45	3.47	4.24½	3.54	3.47	4.45	4.50
Angles, 3 to 6 in., ¼ in. thick	2.45	3.47	4.24½	3.54	3.47	4.45	4.50
Tees, 3 in. and larger	2.45	3.52	4.24½	3.54	3.47	4.45	4.50
Plates	2.66	3.67	4.49½	3.54	3.67	4.90	4.70

RIVETS—The following quotations are per 100 lb.:

STRUCTURAL

	Warehouse						
	Mill Pittsburgh	New York Current	New York One Yr. Ago	Chicago	St. Louis	San Francisco	Dallas
½ in. and larger	$4.20	$4.72	$5.65	$4.72	$4.79	$6.05	$5.90

CONE HEAD BOILER

½ in. and larger	4.30	6.84	5.75	4.82	4.89	6.15	6.00
⅝ and ¾	4.45	4.97	5.90	4.97	5.04	6.30	6.15
⅞ and 1	4.70	5.22	6.25	5.32	5.29	6.65	6.50

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2in. take an extra of 25c.

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows in New York, St. Louis, Chicago and San Francisco:

	1-Ply c.l.	1-Ply l.c.l.	2-Ply c.l.	2-Ply l.c.l.	3-Ply c.l.	3-Ply l.c.
No. 1 grade	$1.50	$1.75	$1.90	$2.15	$2.30	$2.55
No. 2 grade	1.35	1.60	1.70	1.95	2.05	2.30

Asbestos asphalt-saturated Felt (14 lb. per square) costs $156 per ton.

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs $2.25 per roll in carload lots and $2.50 for smaller quantities.

Shingles, red and green slate finish, cost $6.00 per square in carloads; $6.25 in smaller quantities, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York and Chicago:

	Carload Lots N. Y.	Carload Lots Chicago	Less Than Carload Lots N. Y.	Less Than Carload Lots Chicago
Tar felt (14 lb. per square of 100 sq.ft.)	$70.00	$70.00	$71.00	$71.00
Tar pitch (in 400-lb. bbl.)	21.00	18.00	22.00	19.00
Asphalt pitch (in barrels)	34.00	34.00	37.50	37.50
Asphalt felt	68.00	68.00	72.50	72.50

SHEETS—Quotations are in cents per pound in various cities from warehouse also the base quotations from mill:

Blue Annealed	Large Mill Lots Pittsburgh	St. Louis	Chicago	San Francisco	New York Current	New York One Yr. Ago
No. 10	3.55	4.64	4.57	5.80	4.57	5.495
No. 12	3.60	4.69	4.62	5.75	4.62	5.545
No. 14	3.65	4.74	4.67	5.90	4.67	5.595
Black						
*Nos. 18 and 20	4.15	5.24	5.17	6.75	5.30	6.295
*Nos. 22 and 24	4.20	5.29	5.22	6.80	5.35	6.345
*No. 26	4.25	5.34	5.27	6.95	5.40	6.395
*No. 28	4.35	5.44	5.37	7.05	5.50	6.595
Galvanized						
No. 10	4.70	5.79	5.97	.....	6.20	6.845
No. 12	4.80	5.89	6.07	7.30	6.25	6.945
No. 14	4.80	5.89	6.07	7.30	6.30	6.945
Nos. 18 and 20	5.20	6.19	6.37	7.60	6.60	7.245
Nos. 22 and 24	5.25	6.34	6.52	7.75	6.75	7.295
*No. 26	5.40	6.04	6.67	7.90	6.90	7.445
*No. 28	5.70	6.79	6.97	8.20	7.20	7.745

*For painted corrugated sheets add 30c. per 1000 lb. for 25 to 28 gage; 25c. for 10 to 24 gages; for galvanized corrugated sheets add 15c., all gages.

LINSEED OIL—These prices are per gallon:

	New York Current	New York One Year Ago	Cleveland Current	Cleveland One Year Ago	Chicago Current	Chicago One Year Ago
5 bbl. or more in barrel	$2.15	$1.61	$2.00	$2.00	$2.48	$1.66
Less than 5 bbl. cans	2.20	1.71	2.25	2.15	2.68	1.86

WHITE AND RED LEAD—Base price per pound:

	Red Current Dry	Red Current In Oil	Red 1 Year Ago Dry	Red 1 Year Ago In Oil	White Current Dry and In Oil	White 1 Yr. Ago Dry and In Oil
100-lb. keg	13.00	14.50	11.25	11.00	13.00	10.50
25 and 50-lb. kegs	13.25	14.75	11.50	11.25	13.25	10.75
12½-lb. keg	13.50	15.00	11.75	11.50	13.50	11.00
5-lb. cans	15.00	16.50	13.25	13.00	15.00	13.00
1-lb. cans	16.00	17.50	13.25	13.00	16.00	13.00

500 lb. lots less 10% discount; 2000 lb. lots less 10-2½% discount.

LUMBER

San Francisco—Prices of rough Douglas fir No. 1 common, in more than carload lots:

	Lumber Prices in Yards at San Francisco 6-8-12 and 14 Ft.	10-16-18 and 20 Ft.	22 and 24	25 to 32 Ft.
3x3 and 4	$33.00	$33.50	$34.50	$36.50
3x6 and 8	34.00	34.50	35.50	37.50
4x4–6 and 8	34.50	35.50	36.50	38.50
3x10 and 12	34.50	35.50	36.50	38.50
3x14	35.00	36.00	37.00	39.00
4x10 and 12	34.50	35.50	36.50	38.50
4x14	35.50	36.50	37.50	39.50

	24 Ft. and Under	25 to 32 Ft.	33 to 40 Ft.
6x10	$34.00	$36.00	$37.00
6x14	35.50	37.50	38.50
8x10	34.00	36.00	37.00
8x14	35.50	37.50	.....

New York, Chicago and St. Louis

	Southern Pine New York* 20 Ft. and Under	Southern Pine New York* 22-24 Ft.	Southern Pine Chicago 20 Ft. and Under	Southern Pine Chicago 22-24 Ft.	Yellow Pine St. Louis 20 Ft. and Under	Yellow Pine St. Louis 22-24 Ft.
3x 4 to 8x 8	$46.00	$47.00	$51.00	$52.00	$40.00	$42.00
3x10 to 10x10	49.00	50.00	55.00	56.00	43.50	45.00
3x12 to 12x12	54.00	55.00	57.00	58.00	45.00	46.00
3x14 to 14x14	57.00	58.00	62.00	63.00	50.00	52.00
3x16 to 16x16	66.00	67.00	65.00	66.00	53.00	55.00
3x18 to 18x18	76.00	77.00	69.00	70.00	57.00	58.00
4x20 to 20x20	86.00	87.00	.....	.....	.....	.....

*Prices from Lumbermen's Bureau.

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12 x 12 and under; for sizes over 12 x 12 add $2. For merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

Other Cities

	8 x 8-In. x 20-Ft. and Under P.	Fir	Hemlock	Spruce	12 x 12-In. 20 Ft. and Under P.	Fir
Boston	$50.00	$49.00	$48.00	$48.00	$50.00	$50.00
Kansas City	45.50	50.25	50.25	50.25	52.50	51.25
Seattle	.....	.....	.....	.....	.....	30.00
New Orleans	45.00	.....	.....	.....	48.00	.....
St. Paul	60.00	61.00	60.00	46.00	62.00	63.00
Denver	.....	42.00	42.00	42.00	.....	43.00
Atlanta	55.50	57.50	58.00	68.00	68.50	70.50
Baltimore	48.00	.....	.....	.....	60.00	.....

	1-In. Rough, 10 In. x 16 Ft. and Under P.	Fir	Hemlock	2-In. T. and Gr. 10 In. x 16 Ft. P.	Fir
Boston	$50.00	$50.00	$48.00	$50.00	$50.00
Kansas City	64.50	72.75	72.75	67.25	79.00
Seattle	.....	.....	.....	21.50	30.50
New Orleans	55.00	.....	.....	50.00	.....
St. Paul	58.00	55.00	54.00	63.00	56.00
Denver	.....	43.50	43.50	.....	40.00
Atlanta	80.00	85.00	.....	65.00	67.50
Los Angeles	.....	41.00*	41.00*	.....	.....
Baltimore	43.00	.....	.....	40.00	.....

Montreal—Hemlock 2x10x16, 2x12x14, both $44; rough pine, 1x10 and 2x10, $60; No. 1 flooring, $64; British Columbia Fir, 10x12 to 16x16, 32 ft. long, $65.

*Base price.

Dallas—Yellow pine. Price per M:

2x4 to 2x12—12, 14 and 16	$51.25
2x4 to 2x12—10, 18 and 20	52.50
2x4 to 2x12—22 and 24	56.75
4x4, 4x6, 6x6, 8x8 and 3x8	53.75
8x10, 10x10 and 3x10	60.00
12x12 and 3x12	63.75

NAILS—The following quotations are per keg from warehouse:

	Mill Pittsburgh	St. Louis	Chicago	San Francisco	Dall
Wire	$3.25	$3.90	$3.90	$5.00	$5.00
Cut	4.25	5.40	5.50	6.65	6.40

FREIGHT RATES

On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Boston	$0.30	New Orleans	$0.38½
Buffalo	.17	New York	.27
Chicago	.27	Pacific Coast (all rail)	1.25*
Cincinnati	.23	Philadelphia	.24½
Cleveland	.17	St. Louis	.24
Denver	.99	St. Paul	.49½
Kansas City	.59	Detroit	.33
		Baltimore	.33

Note—Add 3% transportation tax. * Minimum carload, 80,000 lb.

Contractors' Miscellaneous Supplies

STEEL SHEET PILING—The following price is base per 100 lb. f. o. b. Pittsburgh, with a comparison of a month and a year ago:

Current	One Month Ago	One Year Ago
$2.55	$2.55	$4

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York and St. Louis
Galvanized iron rigging	+12½%
Galvanized cast steel rigging	7½%
Bright plow steel	35%
Bright cast steel	22½%
Bright iron and iron tiller	5

San Francisco: Galvanized, less 5%, bright, less 25% off.
Chicago, +5 on galvanized, 30–2½ off on bright.

MANILA ROPE—For rope smaller than ¼-in. the price is ½ to 2c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ¼-in., 8 ft., ⅜-in., 6; ½-in., 4½; ⅝-in., 3½; ¾-in., 2 ft. 10 in.; ⅞-in., 2 ft. 4 in. Following is price per pound for ¼-in. and larger, in 1200-ft. coils:

Boston	$0.25	Kansas City	$0.28½
New York	.27	New Orleans	.27½
Chicago	.26½	Los Angeles	.26
St. Paul	.28	Seattle	.27½
San Francisco	.26	St. Louis	.26½
Atlanta	.29½	Montreal	.27½
Denver	.29½	Detroit	.28

EXPLOSIVES—Price per pound of dynamite in small lots, and price per 25 lb. keg for black powder.

	Low Freezing	Gelatin			Black
	20%	40%	60%	80%	Powder
New York	.....	$0.27	$0.30	.....	$2.40
Boston	$.2225	.2425	.2675	$.3100	2.20
Kansas City	.19	.2375	.2625	.30	2.25
New Orleans	.22½	.2375	.2625	.30½	...
Seattle	$0.1425	$0.185	$0.21	$0.315	$1.90
Chicago	.1875	.2125	.2550	.2975	2.15
St. Paul	.19	.2375	.2625	.....	2.45
St. Louis	.19	.2325	.2575	.3000	2.40
Denver	.1775	.22	.245	.2875	2.25
Dallas	.....	.....	.288	.342	2.75
Los Angeles	.1895	.232	2.57	.....	2.55
Atlanta	.20	.225	.245	.....	2.45
Baltimore	.19	.23½	.28½	.30	2.35

POLES—Price of Western red cedar poles is as follows:

	New York				
	Current	One Year Ago	Chicago	St. Louis	Denver
6-in. x 30-ft.	$5.82	$5.66	$5.17	$4.55	$5.17
7-in. x 30-ft.	7.65	7.45	6.85	6.10	6.85
7-in. x 35-ft.	11.10	10.80	10.00	8.95	10.00
8-in. x 30-ft.	12.65	12.30	11.35	10.10	11.35
7-in. x 40-ft.	12.85	12.50	11.50	10.20	11.50
8-in. x 45-ft.	18.90	18.40	16.90	15.00	16.90
8-in. x 50-ft.	22.65	22.05	20.30	18.00	20.30

10c. higher freight rates on account of double loads.

For plain pine poles, delivered New York, the price is as follows:

10-in. butts, 5-in. tops, length 20-30 ft.	$9.00
12-in. butts, 6-in. tops, length 30-40 ft.	11.50
12-in. butts, 6-in. tops, length 41-50 ft.	12.50
14-in. butts, 6-in. tops, length 51-60 ft.	21.00
14-in. butts, 6-in. tops, length 61-71 ft.	23.50

Note—At the present time it is almost impossible to give accurate prices on poles. The above are only nominal.

	Dallas
6-in. x 20-ft.	$4.60
6-in. x 30-ft.	7.10
8-in. x 30-ft.	8.45
8-in. x 35-ft.	10.38

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges.

	New York	Chicago	St. Louis
No. 1 railroad wrought	$22.00	$17.50	$19.50
Stove plate	17.00	18.25	21.50
No. 1 machinery cast	23.00	22.00	23.50
Machine shop turnings	10.00	8.75	11.50
Cast borings	10.00	11.00	11.50
Railroad malleable cast	15.00	18.50	18.50

SHIP SPIKES—Current prices per 100 lb.

In.	San Francisco		Seattle
	Galv.	Black	Black
½	$9.20	$8.50	$8.55
⅝	8.75	6.75	8.25
¾	8.60	6.60	8.30

Pittsburgh base, $3.85 per 100 lb.

LABOR RATES AND CONDITIONS THROUGHOUT THE COUNTRY

S means scarce; E, enough; P, plentiful

Cities	Bricklayers	Carpenters	Hoisting Engineers	Hod Carriers	Pile Drivers	Structural Iron Workers	Common Labor	Remarks
Atlanta	$0.90S	$0.70	$0.40	$0.45	$0.50	$0.72½	$0.35	Atlanta—Union scale 90c., but some contractors are paying $1.25.
Baltimore	1.00E	0.80E	0.87½	0.46 to 0.54E	0.74E	0.87½E	0.35 to 0.40E	Baltimore—Carpenters are asking 90c.; structural iron workers, $1. Common labor is paid 45c. on government work, 46c. in shipyards.
Boston	.60-.70P	.80-.90P	.80-1.00P	.60-.70P	80P	.80-1.00P	.52½-.62½P	
Cincinnati	.....	.....	.70	.....	.50	.....	.....	
Dallas	1.00S	.87½S	.87½S	.40S	.....	.75E	.35S	
Denver	1.00E	.87½E	.93¾E	.59½E	.....	.87½E	.40-.50	
Detroit	1.00E	.80S	.90E	.60E	.90E	.....	.55S	
Kansas City	1.00	.85	.90	.68¾	.77½	.90	.30-.50	
Los Angeles	.87½E	.75E	.75P	.56¼-.75S	.75P	.75P	.50-.62½P	Los Angeles—No strikes. Non-union bricklayers and carpenters receive $6 and $5, respectively, against the union scales of $8 and $7.
Montreal	.70	.65S	.55	.40-.45	.55	.45-.50S	.30-.40	Montreal—Fifty per cent. of carpenters are on strike; 75 per cent. of structural iron workers are striking for 60c.
New Orleans	.75S	.60	.80S	.45	.80-.90	.80	.35	
New York	.87½	.81¼	.87½	.57½	.81¼	.87½	.50	New York—Shortage of common labor
Pittsburgh	1.00	.90	.90	.60	.60	1.00	.40-.45S	
St. Louis	1.00	.87½	1.00	.70	.80-.92½	.90	.40-.45	
St. Paul	.87½	.75	.80	.62½	.85	.85	.45-.50	St. Paul—No strikes. Sewer diggers and paving-block layers are paid 50c.
San Francisco	1.25	1.00	1.00	.87½	.....	.....	.....	San Francisco—No strikes. Building is improving in the San Francisco Bay District.
Seattle	1.12	.93¾	.90	.75-.80	.90	1.00	.75S	Seattle—Common labor scarce owing to harvest season.

PROPOSALS

"For Proposals Advertised see the pages immediately following the Construction News Section."

WATERWORKS

Bids Close		See Eng. News-Record
Aug. 11	New Prague, Minn.	July 31
Aug. 16	Hettinger, N. D.	Aug. 7
Aug. 18	Garber, Okla.	Aug. 7
Aug. 20	Armour, S. D. Adv. July 24.	July 24
Aug. 30	Clarksburg, W. Va. Adv. Aug. 7.	Aug. 7

SEWERS

Aug. 11	Scobey, Mont.	July 31
Aug. 11	New York, N. Y.	Aug. 7
Aug. 12	Clayton, Mo.	July 31
Aug. 12	Erie, Pa.	July 31
Aug. 12	West Bend, Wis.	July 31
Aug. 12	Chicago, Ill.	July 31
Aug. 15	South Charleston, W. Va. Adv. July 24.	July 24
Aug. 16	Hettinger, N. D.	Aug. 7
Aug. 18	Hackensack, N. J. Adv. July 24.	July 24
Aug. 18	Huntington, Pa.	July 31
Aug. 18	Crisfield, Md.	Aug. 7
Aug. 18	Paulsboro, N. J. Adv. Aug. 7.	Aug. 7
Aug. 18	Towson, Md.	Aug. 7
Aug. 19	Kansas City, Mo. Adv. July 3 to 17.	July 3
Aug. 20	Cartersville, Ga.	Aug. 7
Aug. 21	Mandan, N. D.	Aug. 7
Aug. 25	Walnut Grove, Minn.	Aug. 7
Aug. 25	Lima, O. Adv. Aug. 7.	Aug. 7

BRIDGES

Aug. 11	Duluth, Minn.	July 31
Aug. 11	Eureka, Cal.	July 31
Aug. 12	Duluth, Minn.	July 31
Aug. 14	Wilkes-Barre, Pa.	Aug. 7
Aug. 18	Harrisburg, Pa.	Aug. 7
Aug. 18	Pritchard, B. C.	Aug. 7
Aug. 19	Statesboro, Ga.	July 3
Aug. 20	Swainsboro, Ga.	July 3
Aug. 20	New Jersey Adv. Aug. 7.	Aug. 7
Aug. 25	Willougby, O.	Aug. 7
Aug. 25	Great Falls, Mont.	Aug. 7

STREETS AND ROADS

Aug. 10	Outremont, Que.	Aug. 7
Aug. 11	Buckhannon, W. Va.	July 31
Aug. 11	Mt. Union, Pa.	July 31
Aug. 11	Monroe, N. C.	July 31
Aug. 11	Las Cruces, N. M.	July 31
Aug. 11	Buckhannon, W. Va. Adv. July 31.	July 31
Aug. 11	Natchitoches, La.	Aug. 7
Aug. 11	Salem, N. J.	Aug. 7
Aug. 11	San Diego, Cal.	Aug. 7
Aug. 11	Iola, Kan.	Aug. 7
Aug. 11	St. Paul, Minn.	Aug. 7
Aug. 11	Sacramento, Cal.	Aug. 7
Aug. 12	Wisconsin	Aug. 7
Aug. 12	Roby, Tex.	Aug. 7
Aug. 12	Frederick, Md.	Aug. 7
Aug. 12	Omaha, Neb.	Aug. 7
Aug. 12	Duluth, Minn.	Aug. 7
Aug. 12	Newark, N. J.	Aug. 7
Aug. 12	Hoboken, N. J.	Aug. 7
Aug. 12	Logan, W. Va.	July 31
Aug. 12	Charleston, W. Va.	July 24
Aug. 12	Meadville, Pa. Adv. July 17.	July 17
Aug. 12	Washington, N. C.	July 17
Aug. 12	Albany, N. Y. Adv. July 17.	July 17
Aug. 12	Beaufort, S. C.	
Aug. 12	Omaha, Neb.	July 31
Aug. 12	Beaver City, Neb.	July 31
Aug. 12	Charleston, S. C.	Aug. 7
Aug. 12	Helena, Ark.	Aug. 7
Aug. 13	Illinois Adv. Aug. 7.	Aug. 7
Aug. 13	Holtville, Cal.	July 24
Aug. 13	Connellsville, Pa.	July 31
Aug. 13	McCook, Neb.	July 31
Aug. 13	Trenton, N. J.	July 31
Aug. 13	Lockhart, Tex.	Aug. 7
Aug. 14	St. Roch, Que.	Aug. 7
Aug. 14	Chicago, Ill.	Aug. 7
Aug. 14	Jersey City, N. J.	July 31
Aug. 14	Bentonville, Ark.	Aug. 7
Aug. 14	Excelsior Springs, Mo.	Aug. 7
Aug. 14	Wisconsin	Aug. 7
Aug. 15	Farmington, Utah	July 17
Aug. 15	Ripley, W. Va.	July 31
Aug. 15	Warren, Minn.	Aug. 7
Aug. 15	Alliance, Neb.	Aug. 7
Aug. 15	Fenelton Falls, Ont.	Aug. 7
Aug. 15	St. Romuald, Que.	Aug. 7
Aug. 15	Lindsay, Ont.	Aug. 7
Aug. 15	Montague, Tex.	Aug. 7
Aug. 15	Long Island City, N. Y.	Aug. 7
Aug. 15	Oxford, O.	July 31
Aug. 15	Williamsburg, Pa.	July 31
Aug. 15	Ripley, W. Va.	July 31
Aug. 16	Abilene, Tex.	July 31
Aug. 16	St. Albans, W. Va. Adv. July 17.	July 17
Aug. 16	Fairmont, W. Va.	Aug. 7
Aug. 18	Walnut Ridge, Ark. Adv. July 17.	July 17
Aug. 18	Trenton, Ont.	Aug. 7
Aug. 18	Beamsville, Ont.	Aug. 7
Aug. 18	London, Ont.	Aug. 7
Aug. 18	Brantford, Ont.	Aug. 7
Aug. 18	Kingston, Ont.	Aug. 7
Aug. 18	Brockville, Ont.	Aug. 7
Aug. 19	Michigan	July 31
Aug. 19	Michigan	Aug. 7
Aug. 19	Farmington, Minn.	Aug. 7
Aug. 19	Georgetown, Del.	July 31
Aug. 19	Faribault, Minn.	July 31
Aug. 19	Harrisburg, Pa.	July 31
Aug. 21	De Queen, Ark.	July 24
Aug. 21	Oil City, Pa.	Aug. 7
Aug. 23	Brainerd, Minn.	July 3
Aug. 24	Washington, D. C.	July 24
Aug. 24	Denver, Colo.	July 10
Aug. 25	Ebensburg, Pa.	Aug. 7
Aug. 26	New York, N. Y.	Aug. 7
Aug. 26	Guntersville, Ala.	July 31
Aug. 27	Peru, Neb.	Aug. 7
Sept. 1	Arcadia, Fla.	Aug. 7
Sept. 1	Salt Lake City, Utah	July 24
Sept. 2	Independence, Mo.	Aug. 7

EXCAVATION AND DREDGING

Aug. 15	West Point, Miss.	Aug. 7
Aug. 20	Carrollton, Miss.	Aug. 7
Aug. 28	Granite Falls, Minn.	Aug. 7

INDUSTRIAL WORKS

Aug. 15	Duluth, Minn.	July 31
Aug. 15	Hartford, Conn.	Aug. 7
Aug. 16	London, Ont.	Aug. 7
Aug. 16	Bridgeport, Conn.	Aug. 7
Aug. 25	Syracuse, N. Y.	July 31

BUILDINGS

Aug. 9	New York, N. Y.	Aug. 7
Aug. 11	Biwabik, Minn.	July 31
Aug. 11	Grand Island, Neb.	Aug. 7
Aug. 11	Morrisonville, Minn.	July 31
Aug. 11	Jamestown, N. D.	Aug. 7
Aug. 11	Ottawa, Ont.	July 31
Aug. 11	London, Ont.	July 13
Aug. 11	Hatboro, Pa.	Aug. 7
Aug. 11	Pelham, N. Y.	Aug. 7
Aug. 12	St. Louis, Mo.	July 31
Aug. 12	Indian Head, Sask.	July 24
Aug. 12	Morgantown, W. Va.	July 24
Aug. 12	Philadelphia, Pa.	Aug. 7
Aug. 12	Eugene, Ore.	Aug. 7
Aug. 14	New York, N. Y.	July 31
Aug. 15	Casper, Wyo.	July 10
Aug. 15	Winnebago, Neb.	July 31
Aug. 15	New Bedford, Mass.	July 10
Aug. 15	Omaha, Neb.	July 10
Aug. 15	Provo, Utah	July 24
Aug. 15	Lehi, Utah	July 24
Aug. 15	Oakwood, Mich.	Aug. 7
Aug. 15	Arden, Man.	Aug. 7
Aug. 15	Edmonton, Alta.	Aug. 7
Aug. 15	Eldorado, Kan.	Aug. 7
Aug. 15	Pleasanton, Kan.	Aug. 7
Aug. 16	Pilot Rock, Ore.	Aug. 7
Aug. 18	Erie, Pa.	July 24
Aug. 18	Ottawa, Kan.	Aug. 7
Aug. 19	Spring City, Pa.	Aug. 7
Aug. 19	Fairmont, Neb.	Aug. 7
Aug. 20	Hamilton, Ont.	Aug. 7
Aug. 20	Austin, Minn.	Aug. 7
Aug. 21	Springfield, Ill.	Aug. 7
Aug. 21	Valpariso, Neb.	Aug. 7
Aug. 21	Richmond, Utah	July 31
Aug. 24	St. Paul, Minn.	July 3
Aug. 25	Elizabeth, N. J.	Aug. 7
Aug. 25	Bayard, Neb.	Aug. 7
Aug. 25	Chicago, Ill.	Aug. 7
Aug. 26	Weyburn, Sask.	Aug. 7
Aug. 27	Stoutsville, O.	Aug. 7
Aug. 30	New Aberdeen, N. S.	Aug. 7
Sept. 1	Omaha, Neb.	July 17
Sept. 4	Bayonne, N. J.	July 31
Sept. 15	Pleasant Grove, Utah	July 24

FEDERAL GOVERNMENT WORK

Aug. 11	Dredging—Buffalo, N. Y. Adv. July 17.	July 17
Aug. 11	Pass and Weir Horses, Props, etc.—Wheeling, W. Va.	July 17
Aug. 11	Timber and Cement—Detroit, Mich. Adv. July 31.	July 31
Aug. 12	Paving — Washington, D. C. Adv. July 24.	July 24
Aug. 12	Gunnery Emplacements, etc. —Aberdeen, Md. Adv. Aug. 7.	Aug. 7
Aug. 13	Groins — Spec. 4004 — Great Lakes, Ill.	July 31
Aug. 13	Road Work — Flagstaff, Ariz.	July 31
Aug. 13	Pipes, Valves, etc.—Washington, D. C. Adv. Aug. 7.	Aug. 7
Aug. 14	Rip Rap—Memphis, Tenn.	July 31
Aug. 15	Torpedo Storage and Compressor Building — Spec. 3991—Mare Island, Cal.	July 24
Aug. 18	Removing Boulders—Newport, R. I. Adv. July 24.	July 24
Aug. 18	Dredging—Norfolk, Va. Adv. July 31.	July 31
Aug. 19	Repairing Dike — Philaphia, Pa. Adv. July 17 and 24.	July 24
Aug. 19	Water Pipe—Washington, D. C.	July 31
Aug. 19	Canal Wall—Washington, D. C. Adv. July 31.	July 31
Aug. 19	Water Supply — Stapleton, N. Y.	Aug. 7
Aug. 19	Repairing Wharf—Washington, D. C. Adv. Aug. 7.	Aug. 7
Aug. 20	Metal and Glass Work—Key West, Fla. Adv. July 17.	July 17
Aug. 20	Roofing — Spec. 4005 — Norfolk, Va.	July 31
Aug. 20	Torpedo Racks—Spec. 4008 —Pearl Harbor, H. T.	Aug. 7
Aug. 25	Post Office—Mystic, Conn.	July 31
Aug. 26	Dredging—Honolulu, H. T. Adv. June 26.	June 26
Aug. 27	Sea Wall — New York, N. Y. Adv. July 31.	July 31
Aug. 27	Dredging—Norfolk, Va. Adv. July 31.	July 31
Aug. 27	Lock and Abutment — Louisville, Ky. Adv. July 31.	July 31
Aug. 29	Post Office—Fayette, Mo.	July 24
Aug. 29	Dredging — New York, N. Y. Adv. July 31.	July 31
Aug. 29	Breakwater—Chicago, Ill. Adv. Aug. 7.	Aug. 7
Sept. 2	Towboat—Memphis, Tenn.	Aug. 7
Sept. 2	Miscellaneous Equipment—Washington, D. C. Adv. July 10 and 17.	July 10
Sept. 2	Post Office—Kansas City, Mo.	July 24
Sept. 2	Dredging, New York, N. Y. Adv. Aug. 7.	Aug. 7
Sept. 10	Post Office—Douglas, Ga.	July 31

MISCELLANEOUS

Aug. 10	Electric Light Extension Conduits, Etc., Outremont, Que.	Aug. 7
Aug. 10	Garbage Destruction, Outremont, Que.	Aug. 7
Aug. 14	Wire—Detroit, Mich.	July 31
Aug. 15	Telephone Lines—Edmonton, Alta.	July 24
Aug. 18	Mechanical Loader—Hastings, Minn.	July 31
Aug. 19	Tracks—Philadelphia, Pa. Adv. July 24.	July 24
Aug. 19	Channel — Prince Edwards Island	July 31
Aug. 19	Wharf — Dauphin River, Man.	Aug. 7
Aug. 20	Safety Cars — Saskatoon, Sask. Adv. July 24.	July 24
Aug. 20	Wharf—Stewart, B. C.	July 31
Aug. 20	Bulkhead, Boston, Mass. Adv. Aug. 7.	Aug. 7
Sept. 23	Turbines, etc.—Saskatoon, Sask. Adv. July 24.	July 24
Aug. 25	Railway Ties — Toronto, Ont.	Aug. 7
Aug. 28	Silo—Savannah, Ga.	July 24

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Herkimer — City voted $750,000 bonds to build rein.-con. storage reservoir and dam, and install complete gravity system, near Gravesville. Russia Twp. C. L. Wood, city engr. Noted July 17.

O., Carrolton—City retained W. J. Sherman, engr., 613 Nasby Bldg., Toledo, to prepare plans and estimates for water supply system.

O., Madison—City retained W. J. Sherman, engr., 613 Nasby Bldg., Toledo, to prepare plans for new water supply system, electric light and power plant.

O., Oxford—Village plans to improve waterworks, plans include new electric pumping equipment, new service mains, etc. About $35,000.

O., Toledo—City having plans prepared building 22 filters, 1,000,000 gal. capacity daily, 20 x 50 x 500 ft. settling basin, 11,250,000 gal. capacity, and several miles 30, 32 and 40 in. c. i. mains. Bonds for $850,000 voted for project. H. C. McClure, city engr.

Mich., Port Huron — City having plans and estimates prepared furnishing and installing about 6000 water meters in water system. About $50,000. E. R. Whitmore, city engr.

Mich., St. Clair Beach (St. Clair P. O.)—Village having plans prepared by R. A. Murdock, engr., 706 Free Press Bldg., Detroit, building system of watermains involving 7000 ft. 4-6 in. water pipe, 12 hydrants, valves, etc. About $10,000.

Minn., Foley—City having plans prepared by Chute & Bradley, engrs., St. Cloud, for waterworks and sewers to include 60,000 gal. steel tank pump, 1000 gal. per minute motor. About $40,000.

Mont., Judith Gap—City plans to build waterworks system, including 6 in. mains. About $15,000. Gerharz-Jaqueth Co., 514 1st Natl. Bank Bldg., engrs.

Mo., Cameron—City soon lets contract building filtration plant, installing mechanical equipment and 10 hydrants; also laying 6000 ft. c.i. pipe. E. E. Harper, 2408 East 30th St., Kansas City, engr. Noted July 19.

Tex., Cisco—City having plans prepared by H. Exall Elrod Co., engrs., Interurban Bldg., Dallas, for water-works distribution extensions and concrete dam, involving 240 tons steel, 8520 cu.yd. concrete, 25,000 cu. yd. earth and 1000 cu.yd. rock excav., 30,000 cu.yd. embankment and backfill and 1700 sq.yd. slope pavement; also sewer extensions and pavements throughout the city. Noted Feb. 6.

Idaho, Lewiston—City Water Dept. soon lets contract furnishing materials and laying 500 ft. 6 in. converse joint pipe, 1 Mueller tapping machine for c.i. pipe, one 4 in. and one 12 in. and one 8 in. converse joint gate valve, 1790 ft. 6 in. universal joint c.i., one 6 in. converse by 6 in. universal coupling, 100 lb. pressure pipe, 12¾ in. Mueller corporation cocks for c.i. pipe with attached 16 in. lead goose necks, six 6 in. Universal joint gate valves, four 4 in., six 6 in., one 8 in. converse gate valves, 10 gate boxes to extend 4½ ft., three 4 in. Universal joint gate valves, one 8 x 4 x 8 in. converse cross one 8 x 4 x 8 x 6, one 6 x 6 x 4 x 4 in., one 12 x 12 x 6 x 6 in. converse joint crosses, 2290 ft. 6 in. converse joint, G. & D. pipe, one 6 in. 20 degree special converse joint bend, 600 lb. pig lead, three 4 in. Corey fire hydrants, with converse connections, three 6 x 6 x 4 in. and one 6 x 6 in. converse tees, one 6 x 6 in. converse by 2 in. standard screw tee, two 4 in. Cory fire hydrants with universal connections.

Idaho, Preston—City election Aug. 11, to vote on $35,000 bonds to improve and extend water system. W. Chatterton, city clk.

Cal., Pasadena—S. B. Morris, ch. engr. city water dept., advocates building distributing system in San Rafael Heights, cost, $100,000, reservoir, $17,000 and installation of booster pump.

Cal., Sierra Madre—See "Streets and Roads."

Ont., Cochrane—Town having plans prepared extending waterworks system. Bonds for $25,000 voted for project. E. Casewell, Cochrane, engr.

Ont., St. Thomas—City plans to build concrete reservoir to increase water supply. About $80,000. W. Ferguson, city engr.

Ont., Windsor — City had plans prepared by F. W. Thorold, engr., Toronto, installing pumping station and filtration plant for cities bordering on Windsor. About $100,000.

BIDS DESIRED

W. Va., Clarksburg—Until Aug. 30, by Water Bd., furnishing and erecting complete with appurtenances, following pumping machinery, one 4 m.g.d. centrifugal pump, gear driven from gas engine for total lift 350 ft., one 4 m.g.d. centrifugal pump, gear driven from gas engine for total head 35 ft., one 6 m.g.d. centrifugal pump, gear driven from condensing steam turbine, complete with condensing apparatus for total head 350 ft. Fuller & McClintock, 170 Bway, New York City, engrs.; advertised in this issue. Noted July 31.

N. D., Hettinger—Until Aug. 16, by city, building water works system, involving 20,000 lin.ft. 4, 6 and 8 in. mains, and 50,000 gal. tank on 50 ft. tower. Black & Griffin, Mandan, engrs.

Okla., Garber—Until Aug. 18, by city clerk, laying 12,000 ft. 6 in and 10,380 ft. 8 in Class B c.i. pipe, twenty-three hydrants, etc. Black & Veach, Interstate Bldg., Kansas City, Mo., engrs.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★W. Va., Parkersburg—City let contract installing crib system in city filtration plant, to Western Rivers Co., Point Pleasant, $20,545. City will furnish necessary c.i. pipes. Noted July 17.

★O., Bucyrus—Boro let contract to Rust Eng. Co., Farmers Bank Bldg., Pittsburgh, building dam and storage reservoir, and 500,000 gal. rein.-con. clear water basin. About $63,000.

★O., Springfield—City let contract building 2300 ft. 42 in. cement pipe to increase water supply, to Doyle & Hanahan, 935 Avondale Ave., $34,410. Noted June 12.

★Minn., Brainerd—City let general contract for improvements to waterworks system, to J. W. Hildred & Co., 33 East 3rd St., St. Paul, 13,275; reservoir to Circular Concrete Co., 846 Builders' Exch., Minneapolis, $15,490; flanged fittings, to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, $3775; valves, to J. B. Clow & Sons, 544 South Franklin St., Chicago, $2257. Noted June 26.

★Minn., St. Paul—See "Streets and Roads."

★Cal., Los Angeles—Bd. Pub. Serv. Comrs. will drill 100 8 and 12 in. wells in Owens River Valley, Inyo Co. to augment supply to Los Angeles aqueduct; also install pumps and pipe lines. W. Mulholland, 645 South Olive St., ch. engr. Work will be done by day labor.

Sewers

PROPOSED WORK

Conn., Stamford—City plans to build sewerage disposal plant. About $225,000. Engineer not selected.

W. Va., Charleston—See "Buildings."

Mich., Detroit—City having plans prepared building 6 mi. Connors Creek Sewer system in Connors Rd. from Seven Mile Rd. to Kercheval Ave. and in Connors Creek from Kercheval Ave. to Detroit River, involving rein.-con. intercepting sewer, 4-barreled type, 2 storm-water barrels, sewage treatment plant, open channel about 20 x 80 ft., from Jefferson Ave. to outlet, to drain 39 sq.yd., discharge 5000 sq.ft., also treatment works to comprise battery of 40 Imhoff tanks. About $14,000,000. C. W. Hubbell, city engr.

Ill., Rock Island—City Council passed ordinance to build storm drain sewers in 46th St. and 16th Ave. Dist. About $75,000. W. Treichler, city engr.

Wis., Sheboygan—City plans to excavate and lay 1.18 mi. sewers in Franklin St. from Washington Ct. to Wisconsin Ave., involving 7000 ft. 8-10 in. vitr. pipe. Cost between $11,000 and $12,000. C. U. Boley, city engr.

Minn., Adrian—Village having survey made by Druar & Smith, engrs., Globe Bldg., St. Paul, for sewerage system and sewage disposal tank. About $40,000. M. E. Corrigan, clk.

Minn., Foley—See "Waterworks."

Minn., Lamberton—Village having plans prepared by Druar & Smith, engrs., Globe Bldg., St. Paul, for new sewers. About $30,000. F. A. Bieresdorf, clk.

Neb., Geneva—City having p... prepared installing 28,000 ft. 8 in... sewers. About $40,000. Grant, ... Letton, 505 Bankers Life Bldg., ... engrs.

Neb., Wilbur—City having p... prepared installing 30,000 ft. sanitary ... About $50,000. Grant, Fulton & ... 505 Bankers Bldg., Lincoln, engrs.

Mont., Judith Gap—City plans ... 1 mi. 6 in. sewer in various streets ... $20,000. Gerharz-Jacqueth Eng. ... 1st Natl. Bank Bldg., Great Falls ... engrs.

Tex., Cisco—See "Waterworks."

Tex., San Antonio—See "Streets and Roads."

Okla., El Reno—City having plans prepared enlarging sewers and building Imhoff sewerage disposal plant. About $25,000. H. G. Powel, Box 204, engr.

Okla., Stroud—City having plans prepared for laying 28,500 ft. sewers and building Imhoff tank. About $95,000. Johnson & Benham, Firestone Bldg., Kansas City, Mo., engrs.

Idaho, Buhl—City plans to install vitr. or cement sewers in Dist. Nos. 3 and 4. About $87,000. G. B. Brazeau, clk.

Idaho, Salmon—City council plans to install sewers in Main and Shroup Sts. from Daisy to Terrace Sts., vitr. or cement. Cost to exceed $10,000.

Wash., Seattle—See "Streets and Roads."

Wash., Vancouver—City soon lets contract building 8 in. vitr. or cement sewers in various alleys. About $10,039. W. Schwarz, city engr.

Ore., Bend—City soon lets contract building 360 ft. 12 in. vitr. sewer, 2 catch basins, also paving, removing old walks, clearing and grubbing streets in Local Impvt. Dists. Nos. 10, 11, 12, 13, 14 and 16, involving 9504 cu.yd. earth and 1590 cu.yd. rock excav., 24,430 sq.ft. cement walks, 76,990 lin.ft. cement curb, 4940 cu. yd. cinder roadway, 3 culverts, etc. About $22,640. R. B. Gould, city engr.

Ore., Portland—City Council plans to build sewers in Powell Valley Rd., East 39th and 53rd Sts., Oakdale and Mistletoe Additions, Myrtle St., Cherry Park, Overton Park and 44th Ave., Hessemer Addition, Carol Park, Tremont Park, Germania, Yale, Brockton and Kelso Sts., Maplewood Additions, Gladstone and Francis Aves., Naples Heights, Cooper's Addition and Greenwod Ave., Waverly Heights. About $61,910. O. Laurgaard, city engr.

Ont., North Bay—City soon receives bids installing 3000 ft. 10-12 in. sanitary vitr. sewers in Cassells, McIntyre and Worthington Sts. About $27,000. H. J. McAuslan, North Bay, engr.

BIDS DESIRED

N. Y., New York—Until Aug. 11, by F. L. Dowling, pres. Manhattan Boro., reconstructing sewer in East 72nd St., from 1st to 2nd Aves., F St. and in continuation thereof, now known as Prescott Ave. from Dyckman St. to point 750 ft. north; also re-regulating, regrading and repaving with granite block pavement on concrete foundation, roadway of West 46th St. from 11th Ave. to west line of 12th Ave.

N. J., Paulsboro—Until Aug. 18, by Boro Council, Black Bldg., building sanitary sewerage system, involving 10.8 mi 5, 6, 8, 10, 12, 15 and 18 in. terra cotta pipe, 107 manholes, 11 flushtanks, pumping station and disposal plant. D. D. Pote, clk.; advertised in this issue. Noted July 31.

Pa., Oil City—See "Streets and Roads."

Md., Crisfield—Until Aug. 18, by Mayor and City Council, building 8000 ft. 6-20 in. terra cotta sewers, including manholes, house connections, etc. About $25,000. Norton, Bird & Whitman, 606 Munsey Bldg., Baltimore, engrs.

Md., Towson—Until Aug. 18, by Comrs. Baltimore Co., building sewage disposal plant. Work involves Imhoff tanks, dosing chamber, trickling filters, sludge beds and 9 mi. 6-15 in. terra cotta sewer pipe. About $100,000. Norton, Bird & Whitman, 606 Munsey Bldg., Baltimore, engrs.

Ga., Cartersville—Until Aug. 20, by P. C. Flemister, mayor and Bd. Aldermen, at office of City Clerk, building 16 mi. 8-15 in sanitary sewers, with necessary appurtenances; advertised in this issue.

O., Lima — Until Aug. 28, by A. L. Methany, dir. pub. serv., building Collett St. Relief Sewer, Contr. No. 1, involving 16,430 ft. 42-84 in. circular and 78 x 127½ in. semi-circular monolithic concrete segmental block, vitr. segmental block or rein.-

Sewers (Continued)

con. pipe, also outlet abutment at Ottawa River, overflow chamber, etc.; South Side Main Relief Sewers, Contr. No. 2, involving 12,220 ft. 24-72 in. circular, and 60 x 80 in. semi-circular monolithic concrete, concrete segmental block, vitr. segmental block, rein.-con. or vitr. pipe, also weir chamber near Kibby St. and Central Ave., etc. V. C. Miller, city engr.; advertised in this issue.

Minn., Duluth—See "Streets and Roads."

Minn., St. Paul—See "Streets and Roads."

Minn., Walnut Grove—Until Aug. 25, by City Clerk, laying 26,000 ft. sewers. About $40,000. Druar & Smith, Globe Bldg., St. Paul, engrs.

Neb., Alliance—See "Streets and Roads."

Neb., Geneva—C. Underwood, city clk., receiving bids installing 28,000 ft. 8 in. pipe sewers. Grant, Fulton & Letton, 505 Bankers Life Bldg., Lincoln, engrs.

Neb., Red Cloud—See "Streets and Roads."

N. D., Hettinger—Until Aug. 16, by city building sewerage system, involving 21,000 lin.ft. 10-15 in. pipe and septic tank. Black & Griffin, Mandan, engrs.

N. D., Mandan—Until Aug. 21, by city, building sanitary sewerage system for South Side Dist., involving 14,000 lin.ft. 8-12 in. pipe, 36 manholes and lift station. Black & Griffin, Mandan, engrs.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., Stratford** (Bridgeport P. O.)—Bd. Sewer Comrs. let contract building sewage disposal plant, chlorine treatment house and tidal basin and sludge bed, including piping and grading, etc., to Eastern Eng. & Constr. Co., 886 Main St., Bridgeport, $175,000. Noted May 15.

★**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro., let contract building sanitary and storm water sewers and appurtenances in 32nd Ave., Lawrence Ave., Willets Point Blvd. and Linden St., to Porter & DeWitt, 6201-18th Ave., Brooklyn, $659,218. Noted July 31.

★**Pa., Phila.**—City let contract building Wingohocking Creek intercepting sewer, to J. J. McHugh, 1430 South Penn. Sq., cost $42,000; Knorr St. sewer from Knorr to Charles Sts., in Charles to Longshore St., in Longshore St. to Gilmore St., and in Gilmore St. to Tyson St., to J. Lombardi, 937 Carpenter St., $65,000; Cobbs Creek intercepting system in 69th St., to J. Perna, 362 North 65th St., $50,000. Noted Mar. 28.

Mich., Detroit—City received bids furnishing labor and material building 5200 ft. sewer in Mack Ave. from Hamilton Ave. to Connors Creek, from J. Porath, 34 McGraw Bldg., $118,914; J. A. Mercier, 216 Hammond Bldg., $140,000; Lennane & McIlvenna, 1205 Book Bldg., $149,000. Noted July 24.

★**Mich., Hamtramck**—See "Streets and Roads."

★**Mich., Oakland**—City let contract furnishing labor and building 8000 ft. 12-15 in. vitr. crock sewer in Dix, Zanger and Rouge Aves., involving eighteen 36 in. manholes, to Oakland Constr. Co., 165 Ft. Blvd. Detroit, $16,000.

Mich., Port Huron—City received bids building sewers in (a) Jenkinson St. with branches in 7th and 10th Sts., (b) alleys of blocks 181, 204 and 225 of White Plat, (c) alleys of blocks 180, 205, 224 of White Plat, (d) alleys of blocks 178, 207 and 222 of White Plat, (e) blocks 177, 209 and 221 of White Plat, (f) 15th St., (g) Garfield St., (h) blocks 179, 206 and 223 of White Plat, from C. Mugovero, Port Huron, (a) $11,622, (b) $2408, (c) $2612, (d) $4065, (e) $4128, (f) $14,915, (g) $4801, (h) $2668; J. Kaumeier, Port Huron, (a) $12,268, (b) $3543, (c) $3735, (d) $6005, (e) $5911, (f) $12,061, (g) $4531, (h) $4119. Noted July 24.

★**Minn., St. Paul**—See "Streets and Roads."

★**Minn., St. Paul**—City let contract building storm water sewers, to O'Neil & Preston, 60 East 6th St., $88,400. Noted July 24.

★**Ore., Marshfield**—City let contract laying vitr. sewer pipe in South 6th and Elrod Sts., also paving Elrod St. with 1 course concrete, to Scandia Shipbuilding Co., Marshfield, $47,692.

★**Cal., Stockton**—City let contract building 6-10 in. lateral vitr. sewers in Fair Oaks Ave. and 11 other streets in Searchlight Tract, to E. A. Burns, Stockton, $16,806.

★**Ont., Dundas**—Muncipal Council let contract laying 30 in. segmental block sewer to Toronto Potteries, Dominion Bank Bldg., Toronto, $10,175.

Bridges

PROPOSED WORK

Maine—State Highway Comn., Augusta, soon lets contract building 415 ft. concrete arch bridge, 20 ft. roadway, over Gilman Falls, to have three 105 ft. spans.

N. Y., Leroy—Town having estimates made (on basis of present prices), by J. P. Wells, engr., 249 Cutler Bldg., Rochester, for concrete arch or steel girder bridge over Oatka River connecting Mill and Church Sts. This item incorrectly noted in our issues of May 22 and July 24.

N. J., Perth Amboy—State Highway Comn., Trenton, having preliminary surveys made for relocating steel bridge over Raritan River, here. About $1,000,000. C. A. Mead, ch. engr. div. bridges and grade crossings of Pub. Utilities Comn.

Pa., Towanda—Comrs. Bradford Co. plans to build 20 x 780 ft. 8 in. rein.-con. approach to Tozer bridge over Chemung River.

Ga., Savannah—State Highway Comn., South Carolina and Georgia, and Federal Bureau Pub. Roads, having surveys made for steel draw bridge over Savannah River to connect this city and southwest section of South Carolina. About $250,000. J. R. Pennell, c/o State Highway Dept., Columbia, S. C., and H. C. Neal, c/o State Highway Dept., Atlanta, engrs.

O., Springfield—City having plans prepared for rein.-con. arch or girder type viaduct on North Limestone St. from North St. north. About $200,000. W. E. Lucas, city engr.

Mich., Ferrysburg — State Highway Comn., Lansing, soon lets contract building Bridge No. 217 over Spring Lake, near here, to have one 80 ft. single leaf bascule span with wood floor, and one 80 ft. low truss steel span, concrete floor, 20 ft. roadway with 5 ft. cantilever walk on each side, involving 1800 cu.yd. rein.-con. and 175 tons steel. F. F. Rogers, comr.

Tex., San Antonio—City voted $200,000 bonds to build bridges. H. Helland, city engr. Noted July 10.

Idaho, Lewiston—Comrs. Nez Perce Co. plan election to vote on $400,000 bonds to build concrete and steel bridges over Clearwater River at Arrow, Agatha, Myrtle and Spaulding Twps.

Idaho, Twin Falls—City retained R. M. Murray, engr., 214 Electric Bldg., Billings, Mont., to prepare plans and supervise construction of steel and concrete bridge over Rock Creek Canyon. Bonds for $250,000 voted for project.

Oregon—State Highway Comn., Portland, soon lets contract building bridge over Molalla River on Canby-Aurora Sect. of Pacific Highway, near Canby, Clackamas Co., to have three 80 ft. steel truss spans and two 30 ft., concrete spans, involving 266 lin.ft. wood trestle approach, 167,000 lb. structural steel, 45,000 lb. reinforcing steel, 325 cu.yd. Class A and 425 cu.yd. Class B concrete, 624 lin.ft. trestle piling, 2100 lin.ft. foundation piling, 3 rein.-con. bridges over Neil Creek on Pacific Highway, near Ashland, 27,000 lb. reinforcing steel, 375 cu.yd. Class A concrete, 600 lin.ft. wooden piling, 200 lin.ft. concrete hand rail and 2 bridges over Birdseye Creek and Miller's Gulch, Jackson Co., 30,000 lb. reinforcing steel, 200 cu.yd. Class A concrete, 240 lin.ft. concrete hand rail, 450 lin.ft. wooden piling, 4 culverts and 3 bridges on Amity-Holmes Gap Sect. of West Side Highway, Polk and Yamhill Counties, 50,000 lb. reinforcing steel, 300 cu.yd. Class A concrete in bridges, 100 cu. yd. Class A concrete in culverts, 300 lin.ft. concrete hand rail, 600 lin.ft. wood piling, one 108 ft., one 90 ft and one 70 ft. wood truss span bridges near Spray, on John Day Highway, Wheeler Co., 75 cu.yd. Class A concrete in addition to 3 truss spans, 230 lin.ft. trestle approach. H. Nunn, state highway engr.

Cal., Hanford—Bd. Supervs. King Co. directed R. Moye, co. surv., to prepare plans for 500 ft., rein.-con. bridge over Kings River, south of Kingsburg.

Cal., Yuba City—Bd. Supervs. Sutter Co. soon receives bids building 1500 ft., rein.-con. trestle and 30 ft. concrete span bridge over Butte Slough, 16 ft. wide. About $45,000. E. Cope, co. engr.

BIDS DESIRED

New Jersey—Until Aug. 20, by State Highway Comn., Broad St. Bank Bldg., Trenton, building Bridge No. 46, 10 ft. span, 30 ft. wide, at Sta. 45-85, Route 3, Hamilton-Ancora Sect.; No. 172, 10 ft. span, 30 ft. wide, at Sta. 121-40, Route 3, Hammonton-Ancora Sect.; No. 174, 15 ft. span, 30 ft. wide, at Sta. 174-63, Route No. 3, Ancora-Atco Sect.; No. 46, 13 ft. span, 30 ft. wide, at Sta. 415-80, Route No. 3, Ancora-Atco Sect., all rein.-con., in Camden Co. A. L. Grover, ch. clk.; advertised in this issue.

Pa., Harrisburg—Until Aug. 18, by State Highway Comn., building 2300 ft., rein.-con. and steel bridge, here, 30 ft. wide. A. W. Brunner, 101 Park Ave., New York City, engr.

Pa., Shickshinny—Until Aug. 14, by Comrs. Luzerne Co., Wilkes-Barre, building 1600 ft., rein.-con. bridge, 35 ft. wide, over Susquehanna River, between here and Mocanqua. D. A. Keefe, Main St., Athens, engr. Noted April 17.

Ky., Newport—Campbell Co. receiving bids building ten 6-12 ft. concrete bridges over streams at points along Licking Pike. About $10,000.

O., Willoughby—Until Aug. 25, at office of Bd. Comrs. Lake Co., (Painesville), building rein.-con. viaduct and approaches over Chagrin River and Valley, here. W. J. Watson and W. P. Brown, 1101 Hippodrome Bldg., Cleveland, consult. engrs.

Mont., Great Falls—Until Aug. 25, by State Highway Comn., Helena, building 970 ft. concrete bridge, 42 ft. wide, on 1st Ave. and 1200 ft. concrete bridge, 44 ft. wide, on 10th St., both over Missouri River. P. D. Pratt, c/o State Highway Dept., Helena, engr. Noted Mar. 7, 1918.

Okla., Warwick—A. L. Mills, receiver, Ft. Smith & Western Ry., Ft. Smith, Ark., receiving bids building 120 ft. steel bridge (Cooper's E-40 loading) over Deep Fork Drainage Canal, near here.

B. C., Pritchard — Until Aug. 18, by A. E. Foreman, engr., c/o Dept. Pub. Wks., Victoria, building 132 ft. timber bridge over Thompson River, here, 16 ft. wide with 1000 ft. approach, involving 1600 lin.ft. wooden piling. About $30,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Springfield**—A. D. Potter, Greenfield, let contract building 1 story, 100 x 290 ft. brick, warehouse and 100 ft. grain elevator, timber, concrete flooring, concrete foundation, on Page Blvd. and St. James Circle, to E. F. Carlson Co., 310 Main St., and Cordner & Montague, 373 Bay St. About $100,000. Noted July 31.

N. Y., Watertown—City received bids July 18, building rein.-con. bridge over Black River on Pearl St., from Peckham Constr. Co., Niagara Life Bldg., Buffalo, $335,815; Walsh Constr. Co., Herald Bldg., Syracuse, $345,932; Scott Bros., Arlington Blk., Rome, $385,495. Noted July 10.

Pennsylvania — State Highway Dept. Harrisburg, received bids building triple-span highway bridge, rein.-con. floor system, also for additions and repairs to present piers and abutments, in "Lackawanna Trail," Wyoming Co., from Anthracite Bridge Co., 310 Ganet St., Scranton, $56,538; W. S. Rae, 439 Oliver Bldg., Pittsburgh, $64,067; Whittaker & Diehl, Union Trust Bldg., Harrisburgh, $70,744; also building truss highway bridge, rein.-con floor system, also for additional repairs to abutments, Route No. 127, York Twp., York Co., G. A. and F. M. Wagman, Dallastown, $28,938; G. W. Ensign Co., Inc., Harrisburg Bank Bldg., Harrisburg, $35,205; Whittaker & Diehl, Union Trust Bldg., Harrisburg, $43,023.

★**Pa., Summerville**—Jefferson Co., Brookville, let contract building rein.-con. bridge, involving 929 cu.yd. rein.-con., 77 cu.yd. masonry, 56½ tons steel and 457 cu.yd. dry, 37 cu.yd. wet and 64 cu.yd. rock excav., to Concrete Steel Co., Clarksburg, W. Va. About $39,000.

★**Mich., Mt. Clemens**—F. F. Rogers, state highway comr., Lansing, let contract building 230 ft. rein.-con. bridge over Clinton River on Gratiot Ave., 60 ft. wide, 75 ft. center span with two 70 ft approach spans, 45 ft. roadway with walks on each side, to T. E. Currie, 20 McGraw Bldg., Detroit, $90,000. Noted June 26.

★**Minn., Pine River**—Comrs. Cass Co. (Walker) let contract building bridge No. 3070 on Highway No. 24, 710 ft. long, to Gervais & Rockeford, 1924 Fremont Ave., N., Minneapolis. About $15,000. Noted July 10 under Walker.

Bridges (Continued)

Ariz., Florence—T. Maddock, state engr., Phoenix, received bids building 120 ft. rein.-con. span arch bridge over Queen Creek on Mesa-to-Superior Highway, from Topeka Bridge & Iron Co., Stormont Bldg., Topeka, Kan., $14,000; (180 days); J. C. Steele & Co., Phoenix, $18,606, (120 days); C. Hover, Phoenix, $19,968, (120 days). State furnishes 642 bbls. cement and 40,000 lbs. reinforcing steel.

★**Wash., Mataline Falls**—Comrs. Pend Oreille Co., (Newport) let contract building steel bridge with concrete piers, here, to Union Bridge Co., Fenwick and Kenton Sts., Portland, Ore. About $64,000.

Ore., Newberg—Tamhill Co. (McMinnville) received bids July 21, building 580 ft. rein.-con. viaduct on Newberg Rd., near here, from J. W. Sadler, Albany, $49,040; L. O. Herrold, $54,638; R. Walkerfield, Worcester Bldg., Portland, $55,409. Noted July 10.

Cal., San Diego—Bd. Supervs. San Diego Co. received lowest bid building 180 ft. rein.-con. girder type bridge near Cardiff, involving 700 cu.yd. excav., 3742 lin.ft. wood piling, 605 cu.yd. rein.-con. and 39 tons reinforcing steel, from Johnson & Gaston, San Diego, $26,900. Noted July 17.

★**Que., Yamichiche**—City let contract building 52 ft. steel and concrete bridge over River aux Glaises, 20 ft. wide, to E. Vaitlancourt, Yamichiche. About $15,000.

Structural Steel

PROPOSED WORK

Tex., Cisco—See Water-works."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mich., Detroit—See "Industrial Works."

Reinforced Concrete

PROPOSED WORK

Tex., Cisco—See Water-works."

Cal., Balboa—See "Miscellaneous."

Cal., Hanford—See "Bridges."

Cal., Santa Paula—See "Industrial. Works."

Cal., Yuba City—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mich., Detroit**—See "Industrial Works."
★**Ill., Chicago**—See "Industrial Works."
Ariz., Florence—See "Bridges."
★**Cal., Bishop**—See "Buildings."

Streets and Roads

PROPOSED WORK

Conn., Hartford—Bd. Contr. & Supply soon lets contract paving 6175 ft. Wethersfield Ave., sheet asphalt on 6 in. concrete base. About $75,000. Incorrectly noted in our issue July 24. Contract let to Miller Sidewalk Co., was for resetting curbs and walks, preparatory to above paving.

Conn., Willington—Town appropriated $20,000 bonds to improve roads. C. J. Bennett, c/o State Highway Dept., Hartford, engr.

N. Y., Herkimer—Village soon receives bids paving and building sewers in Folts, Steuben, South Washington and Smith Sts. Former bids rejected. C. L. Wood, city engr. Noted July 24.

N. J., Bordentown—City plans to pave Burling, 2nd, Church, Mary and Spring Sts., about 1 mi., concrete. About $25,000. J. H. Eaton, City Hall, engr.

N. J., Highland Park (Mt. Ephriam P. O.)—Boro Council plans to grade, curb and pave Lincoln Ave. from Raritan to Lawrence Aves., cost, $20,000; South 1st Ave. from Raritan to Harper St., $35,000; South 3rd Ave. from Raritan to Valentine St., $50,000; North 3rd Ave. from Raritan to Lawrence Ave., $35,000; Park Pl., $6000.

N. J., North Bergen—City rejected bids improving Hamilton Ave., bituminous surface. About $20,000. Work will be readvertised about Aug. 8. Noted July 31.

N. J., North Bergen—Town Council plans to improve Anderson Pl., part of Willow Ave. Courtlandt Pl. and South St., bituminous. About $10,000 each. P. F. Daly, engr.

Pennsylvania—State Highway Dept., Harrisburg, received no bids building roads in counties as follows:

Chester Co., 21,619 ft. bituminous macadam surface course, penetration method, Franklin and New London Twps.; 10,509 ft. bituminous surface course, penetration method, East and West Marlboro Twps.

Crawford Co., 640 ft. rein.-con. and Hillside vitr. brick, Routes No. 89 and 18, East Mead Twp.

Erie Co., 7900 ft. bituminous surface on concrete foundation, or 1 course rein.-con., Route No. 304, Northeast Twp.

Pa., Pittsburgh—City passed ordinance to widen portions Brownsville and Pioneer Aves., between Templeton and West Liberty Ave.; also grade, pave and curb Bricelyn St., from Tokio St. to Wilkinsburg Ave., cost $33,000; McCandless Ave., from 53rd to 56th St., $41,000; Swope St. and Way, from Ravenna St. to Alder St., $14,000; Stadium St. from Stafford St. to Radcliffe St., $9000; and Sidney St., from South 24th St. to South 25th St., $13,000. T. Reed, city engr.

Pa., Pittsburgh—City passed ordinance to grade, pave and curb Melwood St., from Ridgeway to Denver Sts. About $90,000. M. S. Sprague, city engr.

Pa., Turtle Creek—City soon lets contract repaving 1200 ft. Pennsylvania Ave. from Union Railroad to Boro. line, 34 ft. wide, involving 1400 sq.yd. excav. and 3410 sq.yd. brick. Harrop & Hopkins, 801 Hometrust Bldg., Pittsburgh, engrs.

W. Va., Beckley—Raleigh Co., Marsh Fork Dist., plans election soon to vote on $195,000 bonds to improve roads. C. L. Scott, Jr., Beckley, engr.

W. Va., Berkeley Springs—Morgan Co. having plans prepared and soon receives bids building 2 mi. Berkeley Spring-Hancock Rd., surfacing 16 ft. wide and grading 24 ft. wide, involving 9000 cu.yd. excav. and 14,000 sq.yd. cement concrete surfacing. About $42,000. C. A. Rathrock, Berkeley Springs, engr.

W. Va., Charlestown—Comrs. Jefferson Co. had plans prepared resurfacing 7.37 mi. Harpers Ferry—Charlestown Pike, surfacing 16 ft. wide, grading 26 ft. wide, involving 11,000 cu.yd. excav. and 69,000 sq.yd. bituminous macadam. About $77,000. Federal Government asked to appropriate $38,000 toward cost. J. K. Hendricks, Charlestown, engr.

W. Va., Charleston—See "Buildings."

W. Va., Elkins—Comrs. Randolph Co. rejected bids received improving 1.92 mi. Street Car Rd., 22 ft. wide, involving 18,000 cu.yd. excav. About $17,000. F. A. Parsons, Elkins, engr. Noted May 22.

W. Va., Hinton—Summers Co., Green Sulphur and Forest Hill Dists., plan to vote on $100,000 and $27,000 bonds to improve roads in respective district. J. D. French, Hinton, engr.

W. Va., Logan—Comrs. Logan Co. plan to pave 1.3 mi. Logan-Milton Rd., concrete. About $39,380. H. McCormack, Logan, engr.

W. Va., Madison—Boone Co., Sherman Dist., plans election soon to vote on $130,000 bonds to improve 22 mi. Jerrold's Valley-Racine Rd., 20 ft. wide. S. E. Bradley, Madison, engr.

W. Va., Moorefield—Comrs. Hardy Co. having plans prepared graveling, surfacing and draining 7.76 mi. Petersburg-Moorefield-Romney Rd., surfacing 16 ft. wide, grading 26 ft. wide, involving 12,000 cu.yd. excav. and 65,700 sq.yd. gravel surfacing. About $43,700. J. P. Stover, Moorefield, engr.

W. Va., West Union—Doddridge Co., McCellan Dist., plans election soon to vote on $250,000 bonds to improve roads. J. M. Martin, West Union, engr.

W. Va., Winfield—Putnam Co., Scott Dist., plans election soon to vote on $20,000 bonds to improve roads. G. H. Davis, Charleston, engr.

W. Va., Woodsdale—City plans to improve 35,000 sq.yd. of various streets. Bonds for $100,000 voted for project.

S. C., Columbia—Richland Co. election Aug. 18 to vote on $2,000,000 bonds to build 300 mi. hard surfaced roads. Engineer not selected.

S. C., Edgefield—Comrs. Edgefield Co. soon let contract relocating, grading, draining and surfacing with top soil 8.42 mi. Dixie Highway from here to Turkey Creek, 30 ft. wide. About $40,000. J. R. Pennell, c/o State Highway Dept., Columbia, engr. Noted July 24.

S. C., Greenville—Comrs. Greenville Co. soon let contract improving 3.03 mi. road from here to Travelers Rest, 30 ft. wide, involving 29,000 sq.yd. 2½ in. bituminous macadam and 2100 tons crushed stone for shoulders. About $35,000. J. R. Pennell, c/o State Highway Dept., Columbia, engr.

S. C., Winnsboro—Fairfield Co. election Aug. 26, to vote on $400,000 bonds to build 200 mi. road. Engineer not selected.

Miss., West Point—Clay Co. soon lets contract furnishing material and building macadam roads in Rd. Dists. Nos. 1 and 2 of Supervs. Dist. No. 5. About $70,000. L. J. Howard, clk.

Louisiana—State Highway Comm., New Orleans, rejected bids received July 24 gravel surfacing 8.35 mi. Shreveport-Arkansas Highway, from Myra to Arkansas Line, Caddo Parish. D. Buie, c/o State Highway Dept., New Orleans, engr. Noted July 17.

La., Alexandria—Comrs. Rapides Co. will sell $2,000,000 bonds Aug. 20 to build roads. I. W. Sylverter, supervy. engr.

La., Gretna—Jefferson Parish soon lets contract paving Anson St. from Washington to Monroe Sts., Washington St. from Hamilton to Anson Sts., Monroe St. along street through the Brooklyn Pasture and Front St., Monroe St. from 2nd to Front St., 2nd St. from Corpernicus Ave. to Monroe St., Corpernicus Ave. from 4th to Front St., Monroe St., from Anson St. to Parish line of New Orleans, bitulithic concrete and vitr. brick on 6 in. concrete base, stone curbing. F. T. Payne, city engr.

La., New Orleans—City plans to pave Rampart St. from Calliope to Melpomene Sts., Dufossat St. from Constance St. to Dock Board Roadway, Baronne St. from Howard Ave. to Melpomene St., Girard St. from St. Charles to Rampart St., wood block, asphalt or concrete on 6 in. concrete base, stone curbing and Shillinger sidewalks; Sycamore St. from Lowerline St. to Bway., St. Ann St. from Decatur to North Rampart St., 2190 ft., cost $30,375; 1400 ft. Orlean St. from Royal to North Rampart Sts., 24 ft. wide, 2600 ft. Barracks St. from North Peters to North Rampart St., 22½ ft. wide, $32,625; 2190 ft. St. Peter St. from Decatur to North Rampart St., 22 ft. wide, wood block, asphalt, concrete or water-bound macadam on 6 in. concrete base, stone curbing and artificial stone sidewalks, $86,580. T. L. Willis, city engr.

La., New Orleans—City plans to subsurface, drain and pave 650 ft. Constance St. from Howard to Calliope Sts., 24 ft. wide, involving 1380 sq.yd. granite or wood block on 6 in. concrete base, 1050 lin.ft. stone curbing and 620 lin.ft. Shillinger sidewalk, cost $11,500; 770 ft. Calliope St., from Waters to South Peters Sts., 29 ft. wide, 1980 sq.yd. granite or wood blocks on 6 in. concrete base, 330 cu.yd. concrete, 1160 lin. ft. stone curbing, 500 sq.yd. Shillinger sidewalk and 300 cu.yd. earth excav., $18,180; 1650 ft. Poydras St., from Camp to Delta Sts., 50 ft. wide, 9650 sq.yd. granite or wood block on 6 in. concrete base, stone curbing, 3500 lin.ft. granite block gutter, $51,820; 1380 ft. Thalia St., from Tehoupitoulas St. to Dock Board Roadway, 25 ft. wide, 3000 sq.yd. granite block, 200 cu.yd. concrete on 6 in. concrete base, 2500 lin.ft. stone curbing, 450 sq.yd. Shillinger sidewalk and 1200 cu.yd. earth excav., $20,250; 2850 ft. Erato St., from Camp to Water Sts., 29 ft. wide, 9750 sq.yd. granite or wood block, 1625 cu.yd. concrete on 6 in. concrete base, 5250 lin.ft. stone curbing, 3400 sq.yd. Shillinger sidewalk and 3200 cu.yd. earth excav., $34,200; 2720 ft. Front St., from Canal to St. Joseph Sts., 36 ft. wide, 9080 sq.yd. granite or wood block on 6 in. concrete base, 3500 lin.ft. stone curbing, 1000 sq.yd. Shillinger sidewalk and 2600 cu.yd. earth excav., $43,520; 5200 ft. South Peters St., from Canal to Thalia Sts., 40 ft. wide, 18,120 sq.yd. granite or wood blocks, and 3020 cu.yd. concrete on 6 in. concrete base, 7700 lin.ft. stone curbing, 2620 cu.yd. earth excav., etc., $123,000; 1320 ft. Poeyfarre St., from Camp to Tahoupitoulas Sts., 27 ft. wide, 4365 sq.yd. granite or wood block, and 725 cu.yd. concrete on 6 in. concrete base, 2250 lin.ft. stone curbing, 1950 sq.yd. Shillinger and brick sidewalk, and 1500 cu.yd. earth excav., $30,000; 1660 ft. Annunciation St., from Howard Ave. to Thalia St., 40 ft. wide, 13,100 sq.yd. granite or wood block or 12,120 sq.yd. asphalt and 2180 cu.yd. concrete on 6 in. concrete base, 2950 lin.ft. stone curbing, 1350 sq.yd. Shillinger sidewalk and 1340 cu.yd. earth excav., $37,000; 514 ft. Constance St., from Julia to St. Joseph Sts., 24 ft. wide, 1380 sq.yd. granite or wood block, and 260 cu.yd. concrete on 6 in. concrete base, 1040 lin.ft. stone curbing and 360 sq.yd. Shillinger sidewalks, $5140; 3150 ft. Gaiennie St., from Camp St. to Dock Board Roadway, 28 ft. wide, 7750 sq.yd. granite or wood block and 1710 cu. yd. concrete on 6 in. concrete base, 5300 lin.ft. stone curbing, 1030 sq.yd. Shillinger

Streets and Roads (Continued)

sidewalk and 3360 cu.yd. earth excav.; 1560 ft. Gravier St., from Camp to Delta Sts., 28 ft. wide, involving 4850 sq.yd. granite or wood block, 7290 sq.yd. concrete on 6 in. concrete base, 2150 lin.ft. stone curbing, 2800 sq.ft. granite gutter and 1000 sq.yd. brick and Shillinger sidewalk, $17,950; paving and resetting old granite block gutter and curb, on 900 ft. Common St., from Magazine to Front Sts., 26 ft. wide, involving 2480 sq.yd. granite or wood block and 415 cu.yd. concrete on 6 in. concrete base, resetting 800 lin.ft., stone curbing and relaying 400 sq.yd. Shillinger sidewalk, $14,420. T. L. Willis, city engr.

O., Dayton—City plans to pave 1750 ft. Pursell Ave. from Wayne to Wyoming Sts., 30 ft. wide, involving 5850 sq.yd. waterbound macadam, 3500 lin.ft. cement curbing and guttering and 3500 lin.ft. cement sidewalk. About $25,350. F. O. Eichelberger, city engr.

O., Dayton—J. Hertzram, 134 East 3rd St., has acquired 11 acre site between Euclid and Harvard Aves. and plans to build new sub-division, involving graveling streets, laying cement curbs and gutters, etc. About $15,000.

O., Hamilton—City passed ordinance to pave, curb and gutter Wayne Ave. from C to E Sts., Dick, Edgewood and Wiea Aves., also Virginia St. Work involves 5000 sq. yd. asphalt or tarvia macadam, 2500 lin.ft. cement curbing, and 2500 lin.ft. cement guttering. About $35,000. W. Weaver, city engr.

O., New Lebanon—City plans to pave 1900 ft. Main St., 32 ft. wide, involving 6750 sq.yd. rein.-con. and 3800 ft. cement curbing and guttering. About $35,000. S. Sharts, Court House, Dayton, engr.

O., Oak Harbor—City receives bids about Oct. 1, paving Benton, Mill, Maple and Park Sts., 20 ft. wide. About $45,000. G. Champe, 610 Nasby Bldg., Toledo, engr.

O., Toledo—City receives bids about Sept. 1, paving 1100 ft. Thatcher Dr. and Lexington Ave., 22 ft. wide, involving 2340 sq.yd. vitr. brick, 2070 lin.ft. concrete curbing and guttering and 1608 cu.yd. earth excav., cost $13,647; 1346 ft. Starr Ave. from Dearborn St. to city line, 32 ft. wide, 4350 sq.yu vitr. brick, 2555 lin.ft. stone curbing and 1794 cu.yd. earth excav., $24,571; 2629 ft. Bennett Rd. from Sylvania Ave. to city line, 24 ft. wide, 7064 sq.yd. vitr. brick, 5262 lin.ft. curbing and 5114 cu.yd. earth excav., $40,000. H. C. McClure, city engr.

O., Toledo—Lucas Co. having surveys made and plans prepared building 7700 ft. Perrysburg-Holland Rd. No. 57, 16 ft. wide, involving 13,940 sq.yd. concrete and 8351 cu.yd. earth excav., cost $40,000; 17,500 ft. Waterville-Swanton Rd. No. 59, 16 ft. wide, concrete. C. L. Rood, co engr.

O., Wauseon—City receives bids about October paving ½ mi. Chestnut St., 20 ft. wide. About $20,000. G. Champe, 610 Nasby Bldg., Toledo, engr.

Michigan—F. F. Rogers, state highway comr., Lansing, soon lets contract grading, shaping, draining and building concrete culverts and bridges on 13.5 mi. Trunk Line Rd. in Scippo, Moscow and Somerset Twps., Hillsdale Co.

Michigan—State Highway Comn., Lansing, soon lets contract shaping sub-grade and surfacing with gravel 5.972 mi. road, 16 ft. wide. Alcona Co., involving 8771 cu.yd. gravel. F. F. Rogers, comr.

Mich., Detroit—See "Miscellaneous."

Mich., Detroit—City soon lets contract paving following alleys with one course concrete, medina retaining stone:

No. 1046, between La Salle Blvd., 14th St., La Mothe and La Salle Gardens, S., involving 315 cu.yd. excav., 1430 sq.yd. pavement, 1267 lin.ft. retaining plank, etc.

No. 1047, between Lawton, Grand River and Kirby Aves., 20 ft. wide, 202 cu.yd. excav., 620 sq.yd. pavement, 438 lin.ft. retaining plank, etc.

No. 1048, between Scatton Ave., Deming St. and Michigan Central Ry., 20 ft. wide, 162 cu.yd. excav., 473 sq.yd. pavement, 412 lin.ft. retaining stone, etc.

No. 1049, between Lawton, Linwood, Montgomery and Columbus Aves., 20 ft. wide, 495 cu.yd. excav., 1779 sq.yd. pavement, 1610 lin.ft. retaining plank, etc.

No. 1050, between Russell, Riopelle, Warren and Theodore Sts., 19 ft. wide, 332 cu.yd. excav., 1097 sq.yd. pavement, 1019 lin.ft. retaining plank, etc.

No. 1051, between Dexter Blvd., Northwestern and Hagarth Ave., 18 ft. wide, 163 cu.yd. excav., 476 sq.yd. pavement, 387 l'n.ft. retaining plank, etc.

No. 1052, between Hastings, Rivard, Catherine and Sherman Sts., 20 ft. wide, 602 cu.yd. excav., 1328 sq.yd. pavement, 680 lin. ft. retaining plank, etc.

No. 1053, between Lawton St., Ferry Park and West Grand Blvd., 20 ft. wide, 230 cu.yd. excav., 715 sq.yd. pavement, 593 lin. ft. retaining plank, etc.

No. 1054, between Tillman, Williams, Stanley and McGraw Aves., 20 ft. wide, 145 cu.yd. excav., 429 sq.yd. pavement, 385 lin.ft. retaining plank, etc.

No. 1055, between 15th and 16th Sts., Stanley and Antoinette Aves., 20 ft. wide, 427 cu.yd. excav., 1213 sq.yd. pavement, 1034 lin.ft. retaining plank, etc.

No. 1056, between 15th, 16th Sts., Linden and Poplar Sts., 20 ft. wide, 312 cu.yd. excav., 978 sq.yd. pavement, 880 lin.ft. retaining plank, etc.

No. 1057, between Brush, Oakland, Leicaster and Kenilworth Aves., 20 ft. wide, 613 cu.yd. excav., 1850 sq.yd. pavement, 1665 lin.ft. retaining plank, etc. Total cost, about $34,300.

Mich., Flint—City having plans prepared by J. Shoecraft, engr., City Hall, building 1 mi. boulevard on north side of city, extending from Saginaw to Marquette Sts., 80 ft. wide. Plans include grading and terracing with ornamental fixtures in center with double driveway paved and curbed.

Wisconsin—State Highway Comn., Madison, Div. No. 1, received no bids improving Beloit-Janesville Rd., Rock Co., Federal Aid Project No. 95 and County Line Rd., Dodge and Jefferson Counties, Federal Aid Project No. 72. Noted July 17.

Wisconsin—State Highway Comn., La Crosse, Div. No. 5, rejected bids received improving Fountain City-Winona Rd., Buffalo Co., Federal Aid Project No. 87. Noted July 10.

Wis., Florence—Florence Co. voted $100,000 bonds to build roads.

Wis., Reedsburg—City soon lets contract grading and paving 2.5 mi. South Water, North Park, Locust and 3rd Sts., 18 ft. wide, involving 8950 sq.yd. vitr. brick and 5000 lin.ft. concrete curb and gutter. About $35,000. A. F. Niebuhr, city engr.

Wis., Reedsburg—City having plans prepared by A. F. Niebuhr, engr., City Hall, grading and paving 1.8 mi. Main St., between East Oak St. and Dewey Ave., 20 ft. wide, involving 5900 sq.yd. vitr. brick. About $20,000.

Wis., Sheboygan—City plans to grade and pave 2.9 mi. North Water St. from Pennsylvania to Erie Aves., and from 13th St. to Michigan Ave., 20 ft. wide, involving 25,000 sq.yd. vitr. brick and 4000 lin.ft. concrete curb and gutter. About $35,000. C. U. Boley, city engr.

Wis., Superior—Dept. Pub. Wks. receives bids about Aug. 15 concrete paving 6.74 mi. Oakes Ave. from Winter to 21st Sts., 347,800 ft., Tower Ave. 5200 ft. Tower Ave. from section 34 to 58th St., 4th St. from Tower to Grand Aves., Clough Ave. from 4th to 12th Sts., Lamborn Ave. from 3rd to Main Sts., Becker Ave. from West 6th to West 10th Sts., Banks Ave. from 21st to 28th Sts., Weeks Ave. from 18th to 21st to West 6th Sts., John Ave. from 24th to 28th Sts., L Ave. from West 5th to 7th Sts., 54th St. from Tower Ave. to Northern Pacific R.R. and Main St. to Interstreet bridge. Total cost $307,811. E. B. Banks, Engineers Office, City Hall.

Minn., Bemidji—Comrs. Beltrami Co. soon let contract grading and graveling 30 mi. Federal Aid Project No. 57, 24 ft. wide. About $180,000. S. D. Snyder, Bemidji, engr.

Minn., Duluth—J. A. Farrell, city comr., soon lets contract paving 54th Ave., E., from London Rd. to Glendale St., $33,595.

Minn., Grand Rapids—Comrs. Itasca Co. rejected bids received July 14, grading and graveling 10 mi. Federal Aid Project No. 52, State Rd. No. 6, 24 ft. wide. About $50,000. Work will be readvertised. O. J. Lidberg, Jackson, engr. Noted June 26.

Minn., Red Wing—Comrs. Goodhue Co. rejected bids received July 17, graveling 21.25 mi. Federal Aid Project No. 20, State Rds. Nos. 1 and 3, 24 ft. wide. Work will be advertised. J. A. Prior, Red Wing, engr. Noted July 3.

Kan., Fredonia—Wilson Co. having plans prepared building 25 mi. gravel road. South Western Eng. Co., Hutchinson, engrs.

Neb., David City—City soon receives bids paving 39 blocks, 24 ft. wide. About $175,000. Grant, Fulton & Letton, 505 Bankers Life Bldg., Lincoln, engrs.

N. D., Fargo—City soon lets contract paving 7000 sq.yd. 3rd St., asphalt, bitulithic, bituminous concrete, Portland cement, or vitr. brick. About $30,000. R. T. Jacobes, city engr.

Mo., Benton—Scott Co. soon receives bids graveling 2 mi. Kingshighway. About $50,000. M. S. Murray, Benton, engr.

Texas—State Highway Dept., Austin, soon lets contract surfacing with earth and gravel and building rein.-con. drainage structures on 10.849 mi. Highway No. 30, 16 ft. wide, between Abilene and Runnels Co. line, involving 14,600 lin.ft. machine grading, 42,223 cu.yd. earth excav., 491 cu. yd. concrete and 18,682 lb. reinforced steel etc., cost $28,599; 20.661 mi. Federal Aid Project, Highway No. 30, 16 ft. wide, running from Abilene toward Runnels Co. line, 76,742 cu.yd. earth excav., 46,720 lb. reinforced steel, etc., $58,803; 2.098 mi. Federal Aid Project No. 90, Highway No. 7, known as Tuscola View Rd., 16 ft. wide, 14,534 cu.yd. earth excav., 145 cu.yd. concrete, etc., $13,618; 5.405 mi. Highway No. 7, 16 ft. wide, 32,855 cu.yd. earth and borrow excav., 5.5 acres clearing and grubbing, 105 cu.yd. concrete, $21,568, all in Taylor Co. H. E. Elrod, 505 Interurban Bldg., Dallas, engr.

Tex., Boston—Bowie Co. plans to gravel surface and build rein.-con. drainage structures on 2.965 mi. Highway No. 1, from point 6 mi. west of Texarkana to Red Water, 9 ft. wide, involving 51 cu.yd. concrete, 29,319 cu.yd. earth excav. and 3107 lb. steel. About $20,000. Hess & Skinner, Southwestern Life Bldg., Dallas, engr.

Tex., Bryan—Brazos Co. election Aug. 19 to vote on $1,500,000 bonds to build roads. J. T. Maloney, co. judge.

Tex., Cisco—See "Waterworks."

Tex., Ft. Worth—Tarrant Co. voted $3,450,000 bonds to build roads. H. P. Hays, c/o Hess & Skinner, Southwestern Life Bldg., Dallas, engr. Noted July 10.

Tex., Menard—Menard Co. election Aug. 23 to vote on $275,000 bonds to build State Highways Nos. 10 and 30 and main laterals. J. D. Scruggs, co. judge.

Tex., San Antonio—City voted $950,000 bonds to widen and open streets, $900,000 to pave and install sewers in various streets, and $50,000 to build sidewalks. H. Helland, city engr. Noted July 10.

Tex., Seguin—Guadalupe Co. voted $100,000 bonds to improve roads along Galveston, Harrisburg and San Antonio R.R. from here to Bexar Co. line, connecting link of Houston-San Antonio Highway. Engineer not selected. J. B. Williams, co. judge.

Idaho, Boise—Ada Co. election Aug. 30, to vote on $1,000,000 bonds to build and improve highways.

Idaho, Lewiston—North Fork Highway Dist. plans to grade, gravel and surface 15 mi. Lewiston-Missoula Sect. of Lewis and Clark Highway. About $100,000. A. J. Warren, Northfork, engr.

Idaho, Orofino—North Fork Highway Dist. plans to grade and hard surface new link between North and South Highways. Bonds for $140,000 sold for project.

Idaho, Preston—City election Aug. 11, to vote on $25,000 bonds to pave streets and $18,000 bonds to macadamize 3 mi. of suburban roads.

Ariz., Florence—Pinal Co. election Sept. 16, to vote on $1,000,000 bonds to build following roads: Florence to Superior, $150,000, Mt. Lemmon Rd., $15,000, Florence to Casa Grande, $178,500, Casa Grande to Maricopa, $3800, Oracle to Mammoth, $65,000, streets in Ray, $61,000, Toltec north, $1400, Casa Grande to Pima Co., $164,100, Riverside bridges, $5000, Florence to Price, $5000, Ray to Superior, $160,200, streets in Superior, $10,000, Ray to Kelvin, $95,000, Casa Grande to Sacaton, $26,000, Casa Grande South, $40,000 and Troy Rd., $10,000.

Wash., Anacortes—City Council rejected bids received July 15, paving 8396 ft. 7th, 8th, 9th and K Aves., 16 ft. wide. About $37,329. Forty-eight per cent. property holders objected to improvement and it was sustained by city council. Noted July 10.

Wash., Anacortes—City Council received no bids July 15 paving 35th St. from Commercial St. to V Ave., concrete or bituminous top on concrete base, and Fidalgo Rd. from V Ave. to city limits, concrete, 16 ft. wide. About $33,014. Plans will be revised. W. B. Short, city engr.

Wash., Camas—City Council soon lets contract grading and building concrete curbs and sidewalks on D St.; also macadamizing 24 ft. center strip and laying lateral sewers in Gracey and Spruce Sts. Cost, street work, $19,190, and sewer $4098. C. E. Farr, city clk.

Streets and Roads (Continued)

Wash., Centralia—City plans to pave 4th, 5th and D Sts. and Towler Ave., concrete, bitulithic or asphaltic concrete. Cost to exceed $10,000.

Wash., Chehalis—City Comrs. received no bids July 18, paving Cascade Ave. from Main to Washington Sts., concrete. About $10,000. Work will be readvertised.

Wash., Colville—City Council adopted resolution to construct concrete sidewalks on Columbia and Birch Sts., from South Main St. to city limits, 1st St., from North Main St. to 5th Ave., 2nd St. and Oak St., from 6th Ave. to 1st, 4th and 3rd Sts., also portions of Maple, Cedar and Elm Sts. Cost will exceed $10,000.

Wash., Colville—City Council rejected bids received July 21, paving 5 blocks Main St., concrete. Owing to irregularity in publishing ordinance, bids were returned to bidders for later submission. Noted Aug. 7.

Wash., Kent—City plans to grade and gravel Winner Ave., also 1st St. from Winner St. to Sole Ave., Cloudy Ave. from 1st to 2nd Sts., and Cole Ave. from 1st to 2nd Sts. Cost to exceed $10,000. B. M. McHugh, city engr.

Wash., Seattle—Bd. Pub. Wks. received no bids July 18, paving Empire Way et al. involving 270 lin.ft. 24 in. clay pipe and 1000 lin.ft. 6 in. side sewers, etc. About $329,962. Work will be readvertised. A. H. Dimock, city engr.

Wash., Seattle—Bd. Pub. Wks. received no bids July 25, improving Bennett St., et al. from Empire Way to Renton Ave. Work involves 2700 cu.yd. earth excav., 910 sq.yd. concrete sidewalk and 11,000 ft. wood curbing and guttering.

Wash., Tacoma—Comrs. Pierce Co. rejected bids paving 1 mi. Milton Ave., concrete. About $21,600. E. A. White, co. engr.

Wash., Waterville—Douglas Co. soon lets contract grading, draining and surfacing Local Impvt. Rd. No. 4, near Winthrow, gravel or crushed rock. About $10,000. R. L. Richards, co. engr.

Wash., Wenatchee—Chelan Co. plans to improve Chelan-Manson Rd., 9 ft. wide; Wenatchee-Leavenworth Rd., 18 ft. wide; State Rd. No. 10, from Ribbon Cliff to Sunnypole; road from Wenatchee south to County line; Entiat Valley Rd. up river; Squillchuck Rd.; Malaga West Rd.; Church-Ingalls Creek Sect. of Blewett Pass Rd., all Portland cement concrete; building East Cashmere bridge, also bridges across Peshastin Creek and Entiat River, all concrete. Total expenditure, $1,127,000. About $830,000 of which is derived from bond issue, $297,000 from Permanent Highway fund, and balance from Federal Government.

Wash., Yakima—Comrs. Yakima Co. plan to issue $100,000 bonds to hardsurface and build connecting links between highways in county. W. C. Marion, Yakima, engr.

Oregon—State Highway Comn., Salem, having plans prepared grading and surfacing 15 mi. John Day River-Blalock Sect. Columbia River Highway. About $350,000. H. Nunn, state highway engr.

Ore., Baker—City having plans prepared grading, surfacing and building sidewalks in suburban sections. About $10,000. A. Mahan, comr.

Ore., Bend—See "Sewers."

Ore., Forest Grove—City soon lets contract hardsurfacing 3rd and 5th Aves., A and Main Sts., asphaltic concrete or bitulithic concrete; also laying vitr. or cement drain pipes, and building concrete curbs. About $10,000. W. P. Dyke, city recdr. Cost to exceed $10,000. Noted May 29.

Ore., Ontario—City voted $20,000 bonds to pave and improve streets. L. C. Kelsey, 410 Selling Bldg., Portland, engr.

Ore., Portland—City received no bids paving 46th Ave. from Kern Park to 67th St., S. E. O. Laurgaard, city engr.

Ore., Portland—City soon lets contract paving Marion Ave. from East 15th to East 17th Sts.; East 17th St. from Linn to Clatsop Aves.; Olin St. from Willamette Blvd. to Lombard St., cost $7280; 56th Ave. S. E. from 72nd to 77th Sts., S. E., $6472, artificial stone or asphaltic sidewalks on concrete foundation, not less than 3 in. in depth; Division St. from Grand Ave. to East 10th St., $17,397; East 47th St. from East Glisan St. to connect with pavement at south end regrade project, $14,488; Umatilla Ave. from East 19th to East 23rd Sts., $8532; Girard St. from Haven to Newman Sts., $8726; East 11th St. from Going to Alberta Sts., $6233; East Morrison St. from East 30th to East 32nd Sts., $4708; East Madison St. from East Water to East 1st Sts., $1157; East 9th St. from East Ash to East Burnside Sts., $2104; Klickitat St. from East 24th to East 33rd Sts., East 27th St. from Klickitat to Fremont Sts., $24,546; East 60th St. from East Glisan to Oregon Sts., excepting Portland Ry. Light & Power Co. right of way laying rails, pattern and weight to be approved by City Council, laying 12 in. foundation under track of crushed rock, laying concrete base between ties and paving with basalt stone block or brick block between rails extending 1 ft. outside of rails, $3460; East 16th St. from Marion to Spokane Ave., $17,909, all asphaltic concrete or concrete pavement Nos. 1 and 2 on crushed rock base; Tacoma Ave. from East 17th to East 21st St., 16 ft. wide, crushed rock macadam or gravel macadam, $7800. O. Laurgaard, city engr.

Ore., Portland—City soon lets contract paving and building sidewalks on Clatsop Ave., 46th Ave. S. E. from 67th St. S. E. to Kern Park, crushed rock or gravel macadam, East 10th St. from Killingsworth to Durham Aves., artificial stone or asphalt sidewalks on concrete foundation not less than 3 in. in depth, East Caruthers St. from East 37th St. to Almond Addition, Woodward Ave. from East 19th to East 21st Sts., Grand Ave. from Wyant to Alberta Sts., Clatsop Ave. from East 13th to East 17th Sts., asphaltic concrete Nos. 1 and 2 on crushed rock base or concrete Nos. 1 and 2. Cost to exceed $10,000. O. Laurgaard, city engr.

Cal., Clovis—City having preliminary plans prepared by A. M. Jensen, engr., Fresno, paving 10 blocks with concrete.

Cal., Glendale—City having plans prepared paving 7400 ft. Sycamore Canyon Rd., 50-56 ft. wide, 5 in. concrete paving with oil and rock screenings surface. H. A. Eddy, city engr.

Cal., Hanford—City Trustees receive bids in September, paving 1½ mi. Irwin and 7th Sts., 50 ft. wide, involving 4 in. bituminous base with 1½ in. bitulithic surface, cement curb, etc. B. Duffeld, Hanford and E. M. Lynch, Central Bldg., Los Angeles, engrs.

Cal., Pasadena—City plans to grade and surface 1.1 mi. road in Arroyo Seco Canyon. About $22,202. R. V. Orbison, city engr.

Cal., Sierra Madre—City election soon to vote on $100,000 bonds to improve streets and build extensions to water system.

N. S., Amherst — Dept. Pub. Wks., Ottawa, Ont., soon receives bids grading, paving and curbing Drill Hall grounds here. About $12,000. R. C. Wright, c/o Dept. Pub. Wks., Ottawa, Ont., engr.

Que., Charlesbourg—City soon lets contract building 3 mi. St. Joseph Rd., 18 ft. wide, concrete. About $12,000. C. M. Henry, c/o Dept. Rds., Parliament Bldg., Quebec, engr.

Que., Kenogami—City soon receives bids building 4 mi. concrete roads. J. F. Trenou, Kenogami, engr.

Ont., Milton—Halton Co. soon lets contract building 6 mi. Middle Rd., 20 ft. wide; 3¾ mi. bituminous macadam and 2¼ mi. waterbound macadam. About $130,000. Dept. Highways, Toronto, engrs.

British Columbia—Dept. Pub. Wks., Victoria, soon receives bids building 3 mi Marine Dr., 18 ft. wide, from Lonsdale to Vancouver, North and West Vancouver Twps. About $40,000. A. E Foreman, c/o Dept. Pub. Wks., Vancouver, engr.

B. C., North Vancouver—City soon lets contract building 23,200 sq.yd. 2 in. asphaltic concrete wearing surface on Marine Dr. About $35,000. A. M. West, city engr.

BIDS DESIRED

New York—Until Aug. 26, by State Highway Dept., Albany, improving roads in following counties: Montgomery Co., 2 highways, 3.7 and 3.63 mi.; Rensselaer Co., 1 highway, 1.27 mi.; Saratoga Co., 1 highway, 9.06 mi.; Suffolk Co., 1 highway, 5.86 mi. Also completing following roads: Cuyahoga Co., 2 highways, 6.06 and 5.45 mi.; Chautauqua Co., 1 highway, 8.05 mi.; Franklin Co., 1 highway, 10.36 mi.; Livingston Co., 1 highway, 8.34 mi.; Madison Co., 2 highways, 6.54 and 5.65 mi.; Oswego Co., 1 highway, 6.36 mi.; Seneca Co., 1 highway, 2.13 mi.; Ulster Co., 1 highway, 10.24 mi.; Washington Co., 1 highway, 2.06 mi. Also completing cement concrete repair contract, Cortland Co.; advertised in this issue.

N. Y., Long Island City—Until Aug. 15, by M. E. Connolly, pres. Queens Boro., regulating, grading, curbing and laying sidewalks and paving with sheet asphalt on 6 in. concrete base, Anthon Av. from Myrtle to Halleck Aves. 2nd Ward; Railroad St. from Clinton Ave. to Grand Ave. 2nd Ward; 4th Av. from Bway to James Ave. 1st Ward; Freedom Ave. from James Ave. to Fenhurst Pl., 4th Ward; Gunther St. from 51st to Depeyster Sts., 2nd Ward; Hancock St. from Cypress to Myrtle Aves. 2nd Ward; Roosevelt Ave. from Myrtle Ave. to Woodside Aves., Skillman Ave. from Woodside Ave. to 5th St.; St. Felix Ave. from Walter St. to Charlotte St. 2nd Ward; Van Cortland Ave. from Eckerman Ave. to Fresh Pond Rd., 2nd Ward; regulating and paving with asphalt block on concrete base, 18 ft. wide, centrally located, Boulevard from Bway. to Washington Ave., 1st Ward; with sheet asphalt on concrete base, Olmstead Pl. from Myrtle Ave. to Cypress Hills Cemetery, 2nd Ward; regulating, grading and laying gutters Buckley St. from Hunterspoint to Thomson Aves. 1st Ward; Roosevelt Ave. from 51st St. to Tiemann Ave., 2nd Ward; Moore St. from Nelson to Hunterspoint Aves., 1st Ward; Woodside Ave. from 5th to 9th Sts.; 16th Ave. from Paterson Ave. to point 285 ft. southwest of Grand Ave., 1st Ward; regulating, recurbing and paving with old granite block on sand base, Hunterspoint Ave. from Viaduct over Long Island R.R. to Hayward St., with sheet asphalt on concrete base from Hayward to Creek Sts., regulating, setting curb and paving with sheet asphalt on 6 in. concrete base, Nurge St. from Emma to Martin Sts., 2nd Ward; resetting curb and recurbing with sheet asphalt on 6 in. concrete base, Roland St. from Potter to Woolsey Aves., 1st Ward; constructing ramps with gutters and drains extending from Roosevelt Ave. at legal grade for distances and laying and relaying sidewalks on ramps in 16th, 17th and 18th Sts.

N. J., Hoboken—Until Aug. 12, by city, grading, paving and improving with asphalt pavement Bloomfield St. from 5th to 14th Sts., 6th St. from Bloomfield to Garden Sts. from 7th St. from Bloomfield to Garden Sts., 8th, 9th and 10th Sts., from Washington to Clinton Sts., 12th and 13th Sts. from Washington St. to Willow Ave., Garden St. from 5th to 8th Sts. and Adams. About $75,000. J. O. Whittemore, city engr.

N. J., Newark—Until Aug. 12, by city, paving Belgium St. from South 10th to South 11 Sts., involving 660 sq.yd. concrete pavement, 500 lin.ft. new 5 x 16 in. four cut bluestone curb, 24 lin.ft. 5 x 16 in. quarry cut bluestone header curb, 2220 sq.yd. cement sidewalk, 20 sq.yd. new brick repaving on old concrete, 20 sq.yd. old brick paving and 1 basin complete. M. R. Sherrard, city engr.

N. J., Salem—Until Aug. 11, by Bd. Freeholders Salem Co. building 1600 sq.yd. concrete roads, 18 ft. wide, in Elmer Twp. J. S. Sparks, Salem, engr.

Pa., Allegheny—Until Aug. 25, by Supervs. Allegheny Twp., c/o Cambria Co. Controller, (Ebensburg) reconstructing 17,490 ft. Carroltown Rd., alternate bids will be received on (1) 4 in. vitr. clay paving block on concrete base; (2) 3 in. vitr. clay paving block on concrete base; (3) 1 course rein.-con. pavement. D. W. Dillman, twp. engr.; advertised in this isue.

Pa., Oil City—Until Aug. 21, by E. W. Egan, city controller, grading, paving and building sewers in various streets, involving 1600 cu.yd. grading, 2800 lin.ft. concrete curbing, 2800 sq.yd. paving, 11,000 sq.ft. sidewalks and 2250 ft. 6-15 in. sewers. B. B. Weber, city engr.; advertised in this issue.

Md., Frederick—Until Aug. 12, by Comrs. Frederick Co., building 1.99 mi. Harmony Rd. between Middletown and Harmony, 18 ft. wide with 3 ft. dirt shoulders, 6 in. concrete. About $50,000. J. N. Mackall, 601 Garrett Bldg., Baltimore, engr. Noted Feb. 20.

W. Va., Fairmont—Until Aug. 16 by Bd. Affairs, paving 3000 ft. Morgantown Ave. concrete, 16 ft. wide. S. B. Miller, city engr.

W. Va., Morgantown—Until Aug. 23, by J. M. Cregg, clk. Monongolia Co., building 4.5 mi. Rosedale Rd., 16 ft wide, 1 course rein.-con. Noted May 22.

S. C., Charleston—Until Aug. 12, by Sanitary and Drainage Comn., Charleston Co., relocating, grading, draining and surfacing with concrete 4 mi. Charleston-Columbia Rd. from entrance of Navy Yard to Berkeley Co. line, 20 ft. wide, involving 46,933 sq.yd. concrete and 8000 cu.yd. rock excav. About $100,000. J. R. Pennell, c/o State Highway Dept., Columbia, engr.

Streets and Roads (Continued)

Ga., Jefferson—Until Aug. 9, by Comrs. Jackson Co., building 4.25 mi. Jefferson-Commerce Rd., involving 28 acres grubbing, 21,575 cu.yd. earth and 555 cu.yd. rock excav., 13,328 cu.yd. soil surface, 612 lin.ft. culverts, 493 cu.yd. concrete, etc. About $100,000. Mitcham & Wright, Atlanta, engrs.

Fla., Arcadia—Until Sept. 1, by Comrs. De Soto Co., paving 98,000 sq.yd. roads in Moore Haven Rd. and Bridge Dist. Work involves 3700 cu.yd. grading, 17,400 cu.yd. sand cushion, 227 cu.yd. concrete in culverts, 24,000 lb. reinforcing steel and 2000 ft. lumber. E. V. Camp, Punta Gorda, engr. Noted Dec. 12.

La., Natchitoches—Until Aug. 11, by City Council, gravel surfacing and draining 17.89 mi. Natchitoches-Many Natchitoches, Calfax Highway. D. Buie, c/o State Highway Dept., New Orleans, engr.

Michigan—Until Aug. 19, by State Highway Comn., Lansing, shaping, surfacing with gravel and building drainage structures on 2.596 mi. road, 16 ft. wide, Project No. 47-1, Shiawassee Co., involving 24,364 sq.yd. gravel. F. F. Rogers, comr.

Illinois—Until Aug. 13, by Dept. Pub. Wks. & Buildings, Div. of Highways, Springfield, building roads as follows: 9671 ft. Sect. K-15d, 24,125 ft. Sect. A, 18,465 ft. Sect. B, 26,575 ft. Sect. C and 21,655 ft. Sect. D, Chicago-Wisconsin Highway, 18 ft. wide, Lake and Cook Counties; 12,655 ft. Sect. N-15d and 7545 ft. Sect. B, Morris-Henry Highway, 18 ft. wide, La Salle Co.; 20,183 ft. Sect. P-15d and 11,426 ft. Sect. 32, National Highway, 18 ft. wide, Madison Co.; 19,270 ft. Sect. U, 14,518 ft. Sect. Q, 32,424 ft. Sect. X and 21,270 ft. Sect. Y, Springfield-East St. Louis Highway, 18 ft. wide, Madison Co.; 3099 ft. Sect. F, Peoria-Henry Highway, 18 ft. wide, Peoria Co.; 17,674 ft. Sect. 13 Lincoln Highway, 16 ft. wide, Lee Co. Alternate bids will be received on Portland cement concrete, 4 in. monolithic brick, 3 in. monolithic brick, bituminous concrete with binder course (Spec. C1, C2, C3 or CT), bituminous concrete without binder course (Spec. C1, C2, C3 or CT). On Lincoln Highway, bids will only be received for bituminous macadam; advertised in this issue.

Ill., Chicago—Until Aug. 14, by Bd. Local Impvts., paving 15 alleys and 7 streets, involving 27,000 yd. excav., 14,000 yd. 7 in. concrete, 38,000 yd. asphalt on 6 in. concrete and 2700 yd. vitr. brick on 6 in. concrete base. About $210,000.

Wisconsin—Until Aug. 12, by State Highway Comn., Grand Rapids, grading and paving 3.97 mi. Stevens Point-Wausau Rd., Marathon Co., Federal Aid Project No. 94, involving 8976 cu.yd. earth and 1060 cu.yd. borrow excav., 43 cu.yd. Class "A" concrete, 41,979 sq.yd. 18 in. concrete surfacing, etc.

Wisconsin—Until Aug. 14, by State Highway Comn., at office of Div. No. 2, 208 Stephenson Bldg., Milwaukee, grading and paving 2.31 mi. North Fond du Lac Rd., Waukesha Co., Federal Aid Project No. 102, involving 5973 cu.yd. earth and 72 cu.yd. borrow excav., 105 cu.yd. Class "A" concrete, 24,354 sq.yd. concrete surfacing, etc.; 1.50 mi. Whitefish-Brown Deer Rd., Milwaukee Co., Federal Aid Project No. 103, 6579 cu.yd. earth excav., 48 cu.yd. Class "A" concrete and 18,347 sq.yd. concrete surfacing.

Minn., Duluth—Until Aug. 12, by J. A. Farrell, city comr., improving 4000 ft. 54th Ave., E., from Landon Rd. to Glendale St., 24 ft. wide, involving 100 ft. 3 in. drain tile, 2858 ft. 12-24 in. sewer pipe, 7145 lin. ft. concrete curbs and gutters, 5400 cu.yd. earth and 110 cu.yd. rock excav. About $33,495.

Minn., Farmington—Until Aug. 19, by Village Clerk, grading and paving 20 blocks, 18 ft. wide, involving 31,600 sq.yd. wood blocks, 1500 cu.yd. grading and 11,000 ft. curbing. About $90,000. Druar & Smith, Globe Bldg., St. Paul, engrs.

Minn., St. Paul—Until Aug. 11, by H. W. Austin, city purch. agt., paving Grove St. between Missisippi St. and LaFayette Ave. Work involves 6694 sq.yd. vitr. clay brick blocks, 80,328 lb. asphalt filler, 1450 bbl. Portland cement, 558 cu.yd. concrete sand, 920 cu.yd. stone or gravel, 277 cu.yd. sand, sewer connections, castings, etc. O. Clausen, city engr.

Minn., Warren—Until Aug. 15, by Comrs. Marshall Co., building Federal Aid Rd. No. 81, State Rd. No. 1, 24 ft. wide, involving unloading 5387 cu.yd. gravel at Warren, 7819 cu.yd. at Argyle, 15,181 cu.yd. at Stephen and 2695 cu.yd. at Donaldson, 138,732 lin.ft. road bed, 1700 cu.yd. excav., 12,000 cu.yd. overhaul, culverts, etc. About $160,000.

Kan., Iola—Until Aug. 11, by G. Seymore, clk., Allen Co., building 4½ mi. State St., Federal Aid Project No. 79, concrete. C. E. Stebbins, Iola, engr.

Neb., Alliance—Until Aug. 15, by G. H. Kennedy, city clk., paving Box Butte and Laramie Aves., 1st, 2nd, 3rd and 4th Sts., 40 and 72 ft. wide, involving 30,000 sq.yd. vertical fibre, asphalt or concrete, on 5 in. concrete base, 420 lin.ft. concrete curbing, 8800 lin.ft. concrete gutter and curb, and 100 cu.yd. earth excav., also building 6500 ft. of 12-36 in. storm sewers. About $170,000. Grant, Fulton and Letton, 505 Bankers Life Bldg., Lincoln, engrs.

Neb., Fairmont—Until Aug. 19, by C. L. Cox, city clk., paving 3500 ft., Lincoln St. and Fairmont Ave., 26 and 52 ft. wide, involving 14,500 sq.yd. vertical fibre, asphalt or concrete on 5 in. concrete base, 7200 lin. ft. concrete gutter and curb and 1800 cu.yd. earth excav. About $65,000. Grant, Fulton & Letton, 505 Bankers Life Bldg., Lincoln, engrs. Noted July 31.

Neb., Omaha—Until Aug. 12, by City Council, paving various streets in 39 districts. About $200,000. J. A. Bruce, city engr.

Neb., Peru—Until Aug. 27, by R. W. Kelly, city clk., paving 4700 ft. 5th St., 24 ft. wide, involving 11,654 sq.yd. vertical fibre on 5 in. concrete base, 1168 lin.ft. concrete curbing, 13,768 cu.yd. earth excav. and 527 cu.yd. gravel for drives. About $57,000. State will appropriate toward cost. G. E. Johnson, c/o State Highway Dept., Lincoln, engr.

Neb., Red Cloud—Until Aug. 25, by O. C. Teal, city clk. paving and building 12,000 ft. storm sewers in Cedar, Webster, Seward and Walnut Sts., 3rd, 4th, 5th, 6th, 7th and 9th Aves., 26, 30 and 54 ft. wide, involving 40,000 sq.yd. vertical fibre, asphalt or concrete, 27,000 lin.ft. gutter and curb, 150 cu.yd. earth excav. and 2360 lin.ft. 12-30 in. storm sewers. Grant, Fulton & Letton, 505 Bankers Life Bldg., Lincoln, engrs.

Neb., Red Cloud—Until Aug. 25, by City Council paving 40 blocks, in Dist. Nos. 2 and 3, involving 40,338 sq.yd. asphalt and 27,427 sq.yd. concrete. Grant, Fulton & Letton, 505 Bankers Life Bldg., Lincoln, engrs. Noted July 31.

Mo., Excelsior—Until Aug. 14, by city, resurfacing 1350 ft. Dunbar Ave., 30 ft. wide, bituminous macadam. About $10,000. C. A. Shockley, 740 Reserve Bldg., Kansas City, engr.

Mo., Independence—Until Sept. 2, by Jackson Co. Court, grading, surfacing with bituminous macadam, building earth shoulders, ditches and culverts, on 3.1 mi. Lone Jack East Rd. from Lone Jack to Jackson-Johnson Co. line, 16 ft. wide. O. C. Sheley, co. highway engr.; advertised in this issue.

Ark., Bentonville—Until Aug. 14, by E. C. Pickens, secy. Rd. Impvt. Dist. No. 3, building 45.5 mi. highway, local materials to be used for surface. Plans include one 100 ft. steel bridge and two 30 ft. I-beam bridges. W. L. Winters, Ft. Smith, engr.

Ark., Helena—Until Aug. 12, by Comrs. Phillips Co., building 6.68 mi. highway, bituminous macadam or asphaltic concrete on 4 in. Warrenite base, Monroe & Parmelee, c/o Business Mens League, Helena, engrs.

Tex., Lockhart—Until Aug. 13, by Caldwell Co., scarifying, gravel surfacing with bituminous surface treatment, building rein.-con. drainage structures on 6.67 mi. Central Route Highway, 16 ft. wide, involving 12,500 ft. scarifying, 2232 cu.yd. earth excav., 13,468 lb. reinforced steel, 195 cu.yd. concrete and 62,611 sq.yd. bituminous surface. About $38,621. W. O. Washington, Lockhart, engr.

Tex., Montague—Until Aug. 15, by Montague Co., gravel surfacing and building rein.-con. bridges and culverts on 9.84 mi. Meridian Highway from Bowie to Wise Co. line, 16 ft. wide. Work involves 159 cu.yd. Class A, 86 cu.yd. Class B and 100 cu.yd. Class C concrete, 45,482 cu.yd. earth and 1129 cu.yd. rock excav.

Tex., Roby—Until Aug. 12, by W. C. Martin, Judge Fisher Co., building gravel surfaced road and rein.-con. drainage structures on 14.2 mi. State Highway No. 4, known as Rotan Rd., 15 ft. wide, involving 27,000 lin.ft. grading, 111,000 cu.yd. unclassified earth and 1000 cu.yd. solid rock excav., 52,000 lb. reinforcing steel, etc., Hess & Skinner, Southwestern Life Bldg., Dallas, engrs. Noted May 22.

Cal., Sacramento—Until Aug. 11, by Bd. Supervs. Sacramento Co., paving 6 mi. Jackson Rd. and Winding Way Rd., concrete.

Cal., San Diego—Until Aug. 11, by A. H. Wright, city clk., improving Morena Blvd. and Linda Ave., involving 8169 cu.yd. excav., 1901 cu.yd. embankment for main roadway; 4940 cu.yd. excav., 4122 cu.yd. embankment for berms; 343,424 sq.ft. bitulithic (warrenite) pavement, 1½ in. thick on 4 in. concrete base, culverts, etc. Noted May 8.

Que., Outremont—Until Aug. 10, by city, building sidewalks, cost $6061, grading, $2000, curbing, $8800, macadamizing, $65,000, concrete paving, $7000. I. Duchatelr engr. Noted May 11.

Que., St. Roch—Until Aug. 14, by city, macadamizing 3½ mi. Main St., 18 ft. wide. About $15,000. C. M. Henry, Dept. Rds., Parliament Bldg., Quebec, engr.

Que., St. Romuald—Until Aug. 15, by A. Pigeon, secy., building macadam road. Former bids rejected.

Ont., Beamsville—Until Aug. 18, by Dept. Pub. Highways, Toronto, building 3.25 mi. Provincial Highway, east of here, bituminous. About $10,000. G. Hogarth, c/o Dept. Highways, Toronto, engr.

Ont., Brantford—Until Aug. 18, by Dept. Pub. Highways, Toronto, building 15.62 mi. bituminous road east of here to Ancester village. About $35,000. G. Hogarth, c/o Dept. Highways, Toronto, engr.

Ont., Brockville—Until Aug. 18, by Dept. Pub. Highways, Toronto, building 10.46 mi. bituminous road easterly from here to westerly limit of Prescott. About $25,000. G. Hogarth, c/o Dept. Highways, Toronto, engr.

Ont., Fenelon Falls—Until Aug. 15, by Victoria Co., building 5 mi. Leddy Corners Rd., 18 ft. wide, macadam. About $22,000. Dept. Highways, Toronto, engr.

Ont., Kingston—Until Aug. 18, by Dept. Pub. Highways, Toronto, building 7.72 mi. bituminous road here. About $20,000. G. Hogarth, c/o Dept. Highways, Toronto, engr.

Ont., Lindsay—Until Aug. 15, by Victoria Co., building 1 mi. Mariposa Rd., 20 ft. wide, bituminous macadam. Cost between $20,000 and $27,000. Dept. Highways, Toronto, engrs.

Ont., London—Until Aug. 18, by Dept. Pub. Highways, Toronto, building 15.93 mi. Provincial Highway from here to Ingersoll Twp., bituminous. About $45,000. G. Hogarth, c/o Dept. Highways, Toronto, engr.

Ont., Trenton—Until Aug. 18, by Dept. Pub. Highways, Toronto, building 9.13 mi. bituminous road from easterly limit of Trenton to westerly limit of Belleville. About $25,000. G. Hogarth, c/o Dept. Highways, Toronto, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Conn., Danbury—City received bids repaving roadway of Main and Rose Hill Sts., sheet asphalt on Portland cement concrete base; also regulating and repaving roadway of White, Elm, River and Rose Sts., from C. W. Blakeslee & Sons, 58 Waverly St., New Haven, $126,304; Asphalt Constr. Co., 137th St. and Madison Ave., New York City, $142,908; D. O'Connell's Sons, Holyoke, $175,183. Noted July 17.

★**N. Y., Brooklyn**—E. Riegelmann, boro. pres., let contract regulating and grading 39th St., to C. A. Meyers, $2040; West 11th St., to Annarock Eng. Co., $2695; 87th St., to L. Mangerie, $3331; 39th, President and Woodbine Sts. and Snediker Ave., to Sicilian Asphalt Paving Co., 41 Park Row, New York City, $80,71, $20,803, $9782 and $8548 respectively; Washington St., to Leonard Paving Co., 233 Bway., New York City, $48,597; Ocean Ave., to J. Ryan, $5225. Noted July 31.

★**N. Y., Gowanda**—Bd. Pub. Wks. will pave Chapel St. from Water to Jamestown Sts., concrete. Cost between $12,000 and $15,000. Work will be done by day labor. Noted July 17.

N. Y., New York—F. L. Dowling, pres. Manhattan Boro., received bids July 30, regulating and repaving with granite block pavement on concrete foundation, roadway of, (a) Brome St., (b) Walker St., (c) Bleecker St., from Regan Tower Co., (a) $27,151, (b) $4079, (c) $9134; P. J. Kearns, 2306 Creston Ave., (a) $27,885, (b) $4058, (c) $9628; Asphalt Paving Co., 2197 Madison Ave., (a) $28,187, (b) $4207, (c) $10,154; M. I. Sachs, (b) $4065, (c) $9745. Noted July 24.

Streets and Roads (Continued)

★**N. Y., New York**—F. L. Dowling, pres. Manhattan Boro., let contract regulating and repaving Mail St. with granite block on concrete foundation, to M. I. Sachs, $15,072. Noted July 31.

★**N. Y., Oneida**—Town let contract, to Fazio & Chapman, Oneida, paving Lyndon St., cost $7954, Pleasant Ave., $2270, Central Ave. from West to Warner Sts., $8712, concrete. Noted Apr. 17.

★**N. Y., Syracuse**—City let contract paving City Hall Sq. and contiguous streets, wood block, to G. B. Dickison, Union Bldg., $73,651.

★**N. J., North Bergen**—Town Council let contract repairing 34th and 35th Sts., granite block, to J. Devlin, 117 24th St., Guttenberg. About $100,000. Noted July 17.

N. J., Trenton—Bd. Freeholders Mercer Co. received bids building 1600 ft. Sect. 2-A River Rd., concrete, Hopewell Twp., from Gibbs & Morgan, 12 North Willow St., $43,920; A. Keys, Trenton, $46,080; Natl. Constr. Co., $46,080. Noted July 17.

Pennsylvania — State Highway Dept., Harrisburg, received bids building roads in counties as follows:

Adams Co., 246 ft. 1 course rein.-con. and Hillside vitr. brick, Routes No. 23 and 41, Butler Twp., from Winston & Co., 240 Fair St., Kingston, N. Y., $188,525; Mason & Hanger Co., Inc., Chambersburg, $192,-519; 13,733 ft. 1 course rein.-con., Route No. 123, Tyrone and Strabane Twps., Winston & Co., Kingston N. Y., $154,716; M. Bennett & Sons, Indiana, $135,267.

Beaver Co., 14,481 ft. rein.-con., Eastvale Boro. and North Sewickley Twp., A. W. Falck, Leetsdale, $141,511; T. McNally & Son Co., 701 Oliver Bldg., Pittsburgh, $144,678; Aronberg & McDonald, 313 Citizens Bldg., Norfolk, Va., $138,432.

Bradford Co., 15,207 ft. vitr. brick on concrete foundation and bituminous surface course on concrete foundation, Athens, Sayre and South Waverly Boros., Routes No. 15 and 287, Warren Bros. Co., 142 Berkeley St., Boston, Mass., $188,060.

Chester and Delaware Counties, 46,815 ft. resurfacing, bituminous on prepared broken stone base, Tredyffrin, East-town and Radnor Twps., Class A, Union Paving Co., 30th and Locust Sts., Phila., $110,483; Eastern Paving Co., 401 Colonial Trust Bldg., Phila., $134,827; Class "B," R. H. Johnson Co., Wayne, $115,165; Cunningham Paving & Constr. Co., 1345 Arch St., Phila., $99,248.

Crawford Co., 619 ft. 1 course rein.-con. and Hillside vitr. brick or 2 course concrete and Hillside vitr. brick, Routes 18 and 82, Vernon Twp., Atlanta Constr. Co., Atlanta, N. Y., $229,065; Aronberg & McDonald, 313 Citizens Bldg., Norfolk, Va., $213,440.

Erie Co., 400 ft. bituminous surface course on concrete foundation and Hillside vitr. brick or 1 course rein.-con. and Hillside vitr. brick, Routes 20 and 86, Girard and East Springfield Boros., Campbell Bros. Co., 609 Stambaugh Bldg., Youngstown, O., $340,976; Griff Constr. Co., 1117 State St., Erie, $192,005; Aronberg & McDonald, 313 Citizens Bldg., Norfolk, Va., $243,723; 21,120 ft. bituminous surface course on concrete foundation or 1 course rein.-con., Route 86, Mill Creek Twp., C. H. Fry Constr. Co., Cherry and 19th Sts., Erie, $122,607; Griff Constr. Co., 1117 State St., Erie, $127,634; Class "B," Gaylord International Eng. & Constr. Co., Inc., Lackawanna Ave. and Cedar St., Scranton, $125,865.

Fayette Co., 19,918 ft. vitr. brick on concrete foundation, Route 112, Menallen Twp., Brooke & Cornish, 620 Fayette Title & Trust Bldg., Uniontown, $167,016; Aronberg & McDonald, Norfolk, Va., $171,906.

Jefferson Co., 25,972 ft. 1 course rein.-con. and Hillside brick, Route 60, Pine Creek Twp., Aronberg & McDonald, Norfolk, Va., $237,516; Dale Eng. Co., 23 Mann Bldg., Utica, N. Y., $230,347.

Lawrence Co., 29,628 ft. 1 course rein.-con. and Hillside vitr. brick or 2 course rein.-con. and Hillside brick, Route No. 81, Union and Mahoning Twps., Burns Bros., 323 East Washington St., New Castle, $265,015; T. H. Gill Co., Security Mutual Bldg., Binghamton, N. Y., $263,570; Aronberg & McDonald, Norfolk, Va., $242,816.

Mifflin Co., 24,049 ft. bituminous surface on concrete foundation and Hillside vitr. brick or 1 course rein.-con. and Hillside vitr. brick, Route No. 29, Armaugh Twp., Mason & Hanger Co., Chambersburg, $153,860; Winston & Co., 240 Fair St., Kingston, N. Y., $258,199; Bennett & Randall, Lebanon, $271,546.

Montgomery Co., 5575 ft. bituminous surface on concrete foundation or 1 course rein.-con., Route No. 178, East Norrilton Twp., Field, Barker & Underwood, Commercial Trust Bldg., Phila., $35,100; Union Paving Co., 30th and Locust Sts., Phila., $36,594; H. B. Tranger, National Park, N. J., $35,253; 723 ft. bituminous surface on concrete foundation and Hillside vitr. brick or 1 course rein.-con. and Hillside vitr. brick, Routes 37 and 153, Springfield, White Marsh, Upper Dublin, Lower Gwynedd Twps., Manwaring & Cummins, Inc., 5600 Germantown Ave., Phila., $242,302; Union Paving Co., 30th and Locust Sts., Phila., $243,905; J. McGraw Co., 1010 Commercial Trust Bldg., Phila., $242,819.

Montgomery and Bucks Counties, 15,898 ft. bituminous surface on concrete foundation or 1 course rein.-con., Route 178, Montgomery and New Britain Twps., H. E. Eaton, 1713 Sansom St., Phila., $126,334; Manwaring & Cummins, Inc., 5600 Germantown Ave., Phila., $140,768; J. McGraw Co., 1010 Commercial Trust Bldg., Phila., $132,-707.

Northampton Co., 2565 ft. resurfacing, bituminous on broken stone base, Route No. 297, Bethlehem and Lower Nazareth Twps., R. S. Rathbun Contg. Co., 409 Vine St., Bethlehem, $70,239; F. J. Groman & Sons, Bethlehem, $67,959; Eastern Paving Co., 401 Colonial Trust Bldg., Phila., $67,503.

Susquehanna Co., 53,806 ft. bituminous surface on concrete foundation or 1 course rein.-con., Route No. 9, Hopbottom Boro., Lathrop, Lenox, Harford and New Milford Twps., Gaylord International Eng. & Constr. Co., Cedar and Orchard Sts., Scranton, $342,637; Winston & Co., Kingston, N. Y., $353,255; MacArthur Bros. Co., 120 Bway., New York City, $363,712.

Union Co., 11,484 ft. 1 course rein.-con., Route No. 17, Lewis Twp., T. L. Evans Sons, 344 Terry St., Danville, $67,366; Sutton Contg. Co., 640 Heed Bldg., Phila., $75,-845; R. Hand, Wilkes-Barre, $74,099.

Washington Co., 1106 ft. vitr. brick, Route No. 108, Canansburg Boro., R. W. Wilson, South Central Ave., Canonsburg, $34,788; Hardy & Rankin, 40 Murdock St., Canonsburg, $18,416. (Total will be changed. The written figures were $1.20, others $1.25); 9480 ft. 1 course rein.-con. and Hillside vitr. brick, Route No. 268, East Bethlehem Twp., Brooke & Cornish, 620 Fayette Title & Trust Bldg., Uniontown, $74,191; Donora Constr. Co., Inc., Donora, $88,297; G. S. White Co., 7119 Jenkins Arcade Bldg., Pittsburgh, $83,571.

Westmoreland Co., 12,065 ft. 1 course rein.-con. and Hillside vitr. brick, Route 117, Hempfield Twp., Aronberg & McDonald, Norfolk, Va., $110,979; G. S. White Co., 7117 Jenkins Arcade Bldg., Pittsburgh, $119,461; Dawson Constr. Co., Inc., Connellsville, $107,856; 7484 ft. 1 course rein.-con. North Huntingdon Twp., T. L. Ryan, Ligonier, $114,961; M. O'Herron Co., 1st and McKean St., S. S., Pittsburgh, $112,-835; Hillside Stone Co., Farmers' Bank Bldg., Pittsburgh, $111,966.

★**Pa., Pittsburgh**—Allegheny Co. let contracts building 2000 ft. Troy Hill Rd., Reserve Twp., Telford macadam, and 5280 ft. Thompson Run Extension Rd. No. 2, Ross and McCandless Twps., bituminous macadam, to T. Cronin Co., South 17th and Muriel Sts., Pittsburgh, $15,409 and $58,-047 respectively; 15,350 ft. Meridian and Gibsonia Rds., Richland and McCandless Twps., rein.-con., to McLaughlin Constr. Co., Germania Bank Bldg., $128,812; 2¼ mi. Elizabeth Rd., concrete, to M. O'Herron Co., 1st and McKean Sts., $69,117; also paving between tracks on 2540 ft. Glass and West Run Rds., Homestead and Hays Boros., brick block on concrete base, to McGrady Bros., Braddock, $31,066. Noted July 24.

★**Maryland**—State Rds. Comn., 601 Garrett Bldg., Baltimore, let contract building 2 mi. York Rd., from Parkton toward Pennsylvania State line, Contr. B-30, Baltimore Co., to T. Bresnan & Son, 2018 West North Ave., Baltimore, $66,337; 2 mi. Buckeystown Turnpike from Adamstown toward Montgomery Co. line, Contr. F-31, Frederick Co., to M. J. Grove Lime Co., Lime Kiln, $55,182; 2.12 mi. highway from Oakland toward Hutton, via Crellin, Contr. G-13, Garrett Co., to Claiborne, Johnston & Co., 910 Garrett Bldg., Baltimore, $73,-338. Noted June 12 and July 24.

★**Md., Baltimore**—Bd. Awards let contract repairing streets in various sections of city, sheet asphalt, asphalt block, cement and Belgian Block, to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R., $42,515.

★**Md., Towson**—Comrs. Baltimore Co. let contract building 1 mi. Dulaney's Valley Rd., 16 ft. wide, slate, to G. Long, 13th St. and 1st Ave., Baltimore, $28,500.

★**W. Va., Glenville**—Comrs. Gilmer Co. will grade and drain 2 mi. Gilmer-Ripley and Ohio Turnpike. About $26,000. Work will be done by day labor. Noted June 26.

★**N. C., Elizabeth**—Comrs. Pasquotank Co. will hard surface 25 mi. road, 9-18 ft. wide. About $500,000. Work will be done by day labor. Noted July 10.

★**N. C., Raleigh**—Comrs. Wake Co. let contract hard surfacing 1 mi. Raleigh-Garner Rd., to R. J. Lassiter, Oxford. About $30,000.

★**Ga., Atlanta**—City let contract paving 31,000 sq.yd. Hemphill Ave., concrete, to Brooks-Calloway Co., Healey Bldg. About $89,900.

★**La., Tangipahoa**—City let contract improving 12.55 mi. Hammond-Mississippi State Line Rd., 30 ft. wide, to T. G. Womack, c/o State Highway Dept., New Orleans, $86,076.

★**O., Columbus**—City let contract grading, draining, curbing and repaving 1200 ft. Franklin Park W. from Broad St. to Franklin Park S., 30 ft. wide, to Franklin Asphalt Paving Co., Columbus, $16,884. Noted July 17.

★**O., Greenspring**—City let contract paving 4700 ft. Main St., to Lee Bros., Clyde. About $4200. Noted July 17.

★**O., Hamilton**—City let contract paving 900 ft. Lane, Frankfort and Minster Sts., 30 ft. wide, involving 4500 sq.yd. sheet asphalt, cement curbing and guttering, to Federal Asphalt Paving Co., 125 Main St. $23,857.

★**O., Upper Arlington**—City let contract paving 2 mi. Arlington Ave., Tremont, Bedford, Coventry, Devon, Waltham, Edhemont, Stanford, Fairfax and Guilford Rds., 20 to 36 ft. wide, sheet asphalt, to Andrews Asphalt Paving Co., Hamilton. $122,772.

★**Ind., Indianapolis**—City let contract resurfacing from Mexican asphalt, Merrill St. from Meridan to Union Sts., to Mansfield Eng. Co., 1011 Fletcher Savings & Trust Bldg., $2.96 per lin. ft. Noted June 19.

★**Ind., Noblesville**—City let contract paving 3 mi. Boulevard with bituminous concrete, to E. G. Grant, Greenfield. About $104,599.

Mich., Detroit—Dept. Pub. Wks. received bids paving (a) St. Clair Ave., (b) Chapin Ave., (c) Clairpointe Ave., (d) Garland Ave., (e) Granger Ave., (f) Kirby Ave., (g) Louis Ave., (h) Springle Ave., from Detroit Asphalt Paving Co., 20 McGraw Bldg., (a) $31,326, (b) $4440, (c) $39,548, (d) $56,201, (e) $7512, (f) $8522, (g) $3993, (h) $21,439.

Cleveland Trinidad Paving Co., 2940 Woodward Ave., (a) $32,380, (b) $4586, (c) $41,151, (d) $58,047, (e) $7749, (f) $8788, (g) $4116, (h) $22,131.

W. B. Brady Constr. Co., 1972 Grand River Ave., (a) $32,939, (b) $4585, (c) $41,300, (d) $58,827, (e) $7728, (f) $8746, (g) $4095, (h) $22,297. Noted July 24.

★**Mich., Hamtramck**—Village let contract to Lennane Bros., 809 Union Trust Bldg., Detroit, improving Yemens Ave., involving 5841 sq.yd. concrete, 4209 lin.ft. concrete curbing, 2881 cu.yd. earth excav., 300 ft. 12 in. sewer, manholes, etc., cost, $26,865; Mitchell Ave., 1635 cu.yd. excav., 3421 lin.ft. curbing, 3256 sq.yd. concrete, 800 lin.ft. 12 in. sewer, etc., $17,432; Oliver Ave., 1300 cu.yd. excav., 1737 lin.ft. curbing, 2375 sq.yd. concrete, 650 ft. 12 in. sewer, etc., $12,407; Norwalk Ave., 1025 cu.yd. excav., 1933 lin.ft. curbing, 2646 sq.yd. concrete, 450 lin.ft. 12 in. sewer, etc., $12,411. Noted June 26.

★**Mich., Port Huron**—City let contract to J. H. Baker & Sons, Port Huron, paving 10th St., $85,520; 10th Ave., $42,836; Stone St., $22,887; 22nd St., $29,828; Griswold St., $6653; Lapeer Ave., $41,133; Park St., $7191; alley from Water to Pine Sts., $2186. Noted July 24.

Ill., Chicago—Bd. Local Impvts. received bids July 23 paving following streets: (a) Archer Ave., (b) South Bishop St., (c) Brompton Ave., (d) Cambridge Ave., (e) Carmen Ave., (f) Carroll Ave., (g) West Congress St., (h) Fairoaks St., (i) Homer St., (j) Hutchinson St., (k) Keystone Ave., (l) North Meanard Ave., (m) Potomac Ave., (n) State St., from Madison to Randolph Sts., (o) State St. from Randolph to South Water Sts., (p) St. Louis Ave. from Carmen to Foster Aves., (q) Wabansia Ave., (r) West 42nd St., (s) North Latrobe, North Lockwood and North Long Aves., (t)

Streets and Roads (Continued)

North Fairfield Ave., (u) East 103rd Pl., East 104th St., East 104th Pl., East 105th St., East 105th Pl., East 106th St., East 107th St., Stephenson, Langley, Corliss and Erickson Aves., (v) Wrightwood, Dole and Pine Grove Aves., Hampton and Lehman Courts, from

Ready & Callaghan Coal Co., 133 West Washington St., (a) $67,021; (r) $25,555.

Ryan Co., 4500 West Division St., (a) $68,226; (n) $39,186; (o) $46,477; (r) $25,703.

Smith & Brown Co., 128 North La Salle St. (a) $69,153; (b) $8306; (p) $11,033.

J. A. Sackley Co., 179 West Washington St., (b) $8210; (u) $172,004.

Contg. & Material Co., 10 South La Salle St., (b) $8299, (p) $11,362.

White Paving Co., 17 North La Salle St., (c) $9676; (d) $6050; (h) $7084; (i) $5696; (k) $16,588; (t) $74,971; (v) $64,-766.

Amer. Asphalt Paving Co., 133 West Washington St., (c) $9803; (e) $7683; (g) $2731; (i) $5748; (j) $7042; (l) $19,704; (m) $6063; (q) $45,964; (s) $141,113; (v) $65,166.

R. F. Conway Co., 133 West Washington St., (c) $9899; (d) $6082; (e) $7605; (f) $6579; (g) $2735; (h) $7185; (j) $6962; (k) $16,299; (l) $20,063; (m) $6131; (s) $142,840; (t) $74,497.

F. P. McCormick Co., 133 West Washington St., (d) $6021; (e) $7742; (f) $6635; (h) $7353; (i) $5668; (j) $7144; (k) $16,641; (l) $20,016; (m) $6107; (q) $47,210; (s) $142,613; (t) $75,349; (v) $64,477.

Standard Paving Co., 29 South La Salle St., (f) $6487; (g) $2700; (q) $45,064.

Central Paving Co., 179 West Washington St., (p) $11,444; (r) $25,308.

J. A. McGarry Co., 189 West Madison St., (u) $169,056.

Farr Bros. Co., 356 West 111th St., (u) $171,290.

Wisconsin—State Highway Comn., Grand Rapids, received only bid improving Stevens Point-Waupaca Rd., Portage Co., Federal Aid Project No. 76 and Wautoma-Redgranite Rd., Waushara Co., Federal Aid Project No. 46, from A. Mews, Auburndale, $51,314 and $36,325 respectively. Noted July 31.

★**Wisconsin**—State Highway Comn., Madison, let contract improving Viroqua-Sparta Rd., Federal Aid Project No. 67, Monroe Co., to J. E. Young, Leon, $29,502; Portage-Stevens Point Rd., Federal Aid Project No. 93, Marquette Co., to A. Jones, c/o L. Jones, Endeavor, $23,984. Noted July 17.

★**Wisconsin**—State Highway Comn., Madison Div. No. 1, let contract improving Watertown Plank Rd., Jefferson Co., Federal Aid Project No. 59, to J. Finley, Janesville, 14,601 cu.yd. earth excav., $1.10 per cu.yd., 371 cu.yd. borrow excav., $1.00, 885 cu.yd. concrete in culverts, $23, 1224 lin.ft. 6 in. tile, $0.32, 852 lin.ft. 12 in. tile, $0.50, 178 lin.ft 12 in. vitr. pipe, $0.50, and 3 cleanout basins, $23. Noted July 17.

★**Wisconsin** — State Highway Comn., Madison, Div. No. 1, will improve Portage-Wyocena Rd., Columbia Co., Federal Aid Project No. 51. Work will be done by day labor. Noted July 17.

★**Wis., Sheboygan**—City let contract grading and paving 2.1 mi. Martin Ave. from North 15th St. to Calumet Dr., 18 ft. wide, and St. Clair Ave. from North 1st to North 14th Sts., 20 ft. wide, to Pestien & Nauman, North 15th St., $25,923, and $17,185, respectively. Noted July 31.

★**Minn., Albert Lea**—Comrs. Freeborn Co. rejected bids received July 8, grading and graveling 11.5 mi. Federal Aid Project No. 61, State Rd. No. 6, 24 ft. wide. About $60,000. Work will be done by day labor. Noted July 24.

★**Minn., Brainerd**—Comrs. Crow Wing Co. let contract grading and graveling 14 mi. Federal Aid Project No. 51, 24 ft. wide, to Franzen Bros. & E. Zoutele, Brainerd. About $80,000. Noted July 3.

★**Minn., Duluth**—J. A. Farrell, city comr., let contract paving and curbing with concrete 932 ft. Helem St., 24 ft. wide, to Olson & Johnson, c/o city engineer's office, $10,-856. Noted July 24.

★**Minn., Faribault**—Comrs. Rice Co let contract paving and grading 13 mi. Federal Aid Project No. 64, State Rd. No. 5, 18 ft. wide, to Siems, Helmers & Schaffner, 514 Guardian Life Bldg., St. Paul, $212,523. Noted July 3.

★**Minn., St. Paul**—City let contract for labor and materials paving Woodlawn Fairmont, and Princton Aves., St. Clair St. and Mt. Curve Blvd., to Fielding & Shepley, 216 University Ave., $83,200; sewer and water connections, to Thornton Bros. Co., 304 Scandinavian Amer. Bank Bldg., $15,000. Noted July 3.

★**Kan., Great Bend**—City let contract paving 10 blocks and repairing 5 blocks, brick and asphalt, to A. L. Cook, Ottawa, $66,938.

★**Neb., Grand Island**—City let contract paving Main St., to Watts Constr. Co., Concordia, Kan., at $2.54 per sq.yd. Work involves about 31,000 sq.yd. sheet asphalt.

★**Neb., Laurel**—City let contract for 20,000 yd. vitr. brick block pavement on 5 in. concrete base, to Western States Constr. Co., 409 Brandeis Theatre Bldg., Omaha. About $82,000.

★**Neb., McCook**—City let contract paving various streets, to J. C. Braden, Denver, Colo., work involves 29,574 sq.yd. vitr. brick, 1806 ft. 5 in. curbing, 10,684 ft. combined curbing and guttering, 28 manholes, 70 catchbasins and 4700 ft. 10-36 in. storm sewer. About $3.82 per sq.yd. Noted July 17.

★**Mo., St. Joseph**—Buchanan Co. let contract paving 2.2 mi. One Hundred and Two Rd., asphaltic concrete, to Metropolitan Paving Co., 114 South 5th St. About $32,949. Noted July 10.

★**Ark., Fayetteville**—Washington Co. Rd. Dist. No. 2 let contract building 52 mi. waterbound limestone and gravel macadam road and 2 mi. bituminous macadam road, to Crane Constr. Co., Springfield, Mo. About $385,000. Noted June 26.

★**Ark., Marion**—Bd. Comrs. Rd. Impvt. Dist. No. 9, Crittenden Co., let contract building 11 mi. earth road embankment, to R. G. Hill & Co., 1st Natl. Bank Bldg., Birmingham, Ala., $69,300. Work involves 125,000 cu.yd. embankment, 20 acres clearing and grubbing, 80 cu.yd. plain concrete, 1200 ft. 18 and 24 in. corrugated metal, 1200 ft. 18 and 24 in. vitr. and 1200 ft. 18 and 24 in. rein.-con. pipe. Noted July 17.

★**Tex., Houston**—Harris Co. let contract scarifying and rescarifying 7.41 mi. Houston-Crosby Rd. No. 1, 24 ft. wide, to Miller & Johnson, Crosby, $16,112; building cement concrete pavement, etc., on 1.859 mi. Houston-Crosby Rd. No. 4, 16 ft. wide, to Houston Constr. Co., 518-18 Commercial Bank Bldg., $56,067. Noted July 17.

★**Tex., Jasper**—Jasper Co. let contract gravel surfacing 4.23 mi. Highway No. 7 from Angelina Co. line to Jasper, and 16.21 mi. Highway No. 7, from Jasper west, to Smith Bros., Crockett, $15,669 and $110,-813 respectively. Noted July 17.

Tex., Mt. Vernon—Franklin Co. received only bid graveling 11.13 mi. and building 1.24 mi. concrete road and concrete drainage structures on Highway No. 1 from Hopkins Co. to Titus Co. line, 9 ft. and 14 ft. wide, from Allhanes & Davis, Wills Point, $55,850. Noted July 17.

★**Okla., Pauls Valley**—City let contract paving North Ash St., Charles, Paul and Bert Aves., to R. S. Mitchell, Oklahoma, $123,791. Noted July 31.

★**Colo., Ft. Morgan**—City let contract paving ½ mi. road, to Colorado Bridge & Constr. Co., 306 Gas & Electric Bldg., Denver. About $10,000.

★**New Mexico**—State Highway Comn., Santa Fe, will build 21 mi. Federal Aid Project No. 4, from Armijo to Rio Puerco, Valencia Co., 20 ft. wide, involving 18,000 cu.yd. excav., 1100 yd. gravel, 8000 yd. crushed rock sufacing, 8 wooden bridges, etc. About $74,000. Work will be done by day labor.

★**Wash., Centralia**—City Council let contract paving 4 blocks Main St., concrete, to G. J. Albers & Son, Chehalis, $36,747.

Wash., Colville—City received bids paving 3 blocks on Main St. and 5 blocks on parking business center (1) cash; (2) bonds, from J. W. Baylor, 704 Cleveland St., (2) $26,764; Alloway & Georg, Old Natl. Bank Bldg., (1) $23,668, (2) $24,497; Root & Joslin, (1) $24,145, (2) $25,021. All contractors of Spokane.

★**Wash., Mt. Vernon**—Comrs. Skagit Co. let contract paving 4.5 mi. road in Local Impvt. Dist. No. 9, Sect. No. 3, 16 ft. wide, involving 41,700 sq.yd. concrete and 16,000 cu.yd. earth excav., to C. L. La Plant, Sedro Woolley, $124,090; 1.75 mi. in Local Impvt. Dist. No. 6, Sects. 2 and 3, 16 ft. wide, 16,550 sq.yd. concrete and 3000 cu.yd. earth excav., to Kaiser Paving Co., Green Bldg., Seattle, $44,016.

★**Wash., Orting**—Comrs. Pierce Co., Tacoma, rejected bids paving 1 mi. Caligostoga Ave., here, 1 course concrete. About $21,000. Work will be done by day labor.

★**Wash., Seattle**—Bd. Pub. Wks. let contract paving Harbor Ave., S. W., et al., to Independent Asphalt Paving Co., Seaboard Bldg., $76,614. Eastern Ave., et al., involving 3740 sq.yd. 6 in. concrete, 2625 lin. ft. concrete curbing and guttering, and 1100 cu.yd. earth excav., to Fiorito Bros., Seattle, $14,496. Noted July 31.

★**Wash., Seattle**—Bd. Pub. Wks. let contract paving Railroad Ave., et al., involving 200 sq.yd. brick block and 1960 sq.yd. 8 in. wood block, to S. A. Moceri, 1515 West Barrett St., $13,163. Noted July 17.

★**Wash., Seattle**—Comrs. King Co. let contract building 3.27 mi. Newport-Bellevue Rd., 24 ft. wide, involving 500 cu.yd. gravel surfacing and 30,000 cu.yd. earth excav., also building 2500 ft. creosoted piling trestle, to Hanson & Hauge, Seattle, $76,-800. Noted July 31.

Wash., Spokane—City Comrs. received bids paving Monroe St., from River St. to Eklund Ave., concrete, from Grays Harbor Constr. Co., Hoquiam, $56,927; Haukeli-Hegg Co., Aberdeen, $57,552.

★**Wash., Tacoma**—Comrs. Pierce Co. received no bids July 17 clearing, grubbing and grading Pioneer Way from Crocker to South Prairie. About $31,500. Work will be done by day labor.

★**Wash., Vancouver**—Comrs. Clarke Co. let contract building 7.5 mi. concrete road, to United Contg. Co., Northwest Bank Bldg., Portland, Ore., $158,419.

★**Ore., Astoria**—City let contract paving and building concrete and wooden sidewalks on 2nd St. and paving Floral Ave., to Miller & Bauer, Astoria, $7828 and $7287 respectively; 12th St., to J. Slotti, $5586; Grand Ave., to H. Makela, $6974; 31st St., to J. Woupie, $1700. Noted July 17.

★**Ore., Marshfield**—See "Sewers."

★**Ore., Marshfield**—City let contract paving South 6th St., rock asphalt, to Klockers & Webber, North Bend, $24,356. Noted June 10.

Ore., Portland—City Council received bids grading, paving and building sidewalks, (a) Woodward Ave. from East 19th to East 21st Sts., (b) district improvements in portions of East 25th St. and Woodward Ave., (c) Grand Ave. from Alberta to Wygant Sts., (d) East Caruthers St. from Almond Addition to East 37th St., (1) asphaltic concrete No. 1 in roadway, 2 in. top, (2) No. 1 concrete in roadway, (3) No. 1 concrete in track, (4) asphaltic concrete No. 1, 2 in. top, (5) concrete in track, from Warren Constr. Co., Journal Bldg., (a1) $1.34 per yd., total cost, $4448, (b3) $2.00 per yd., (b4) $1.35 per yd., $16,339, (c) $1.34 per yd., $6199, (d4) $1.34 per yd., $4448; Cochran Bros., (a2) $2.05 per yd., $4546, (b5) $2.05 per yd., $16,723.

★**Cal., Fresno**—City let contract paving F and N Sts., 4 in. concrete paving with 1½ in. bitulithic surface, to Thompson Bros., 1514 H St., $46,990.

★**Cal., Hercules**—City let contract paving ¾ mi. Main St., concrete, to Bates & Borland, 592 Market St., San Francisco, $20,-000.

Cal., Oakland—City received bids grading, curbing, guttering and paving 2000 ft. Fruitvale and Whittle Aves., from Bates & Borland, Bway. and 12th St., $35,166; Oakland Paving Co., 5000 Bway., $35,642; Hutchinson Co., 444 17th St., $36,612. Noted July 24.

★**Ont., Kitchener**—Waterloo Co. let contract building 3 mi. Wellesley Rd., 14, 16 and 24 ft. wide, involving 4000 sq.yd. asphalt on concrete base and 33,000 sq.yd. waterbound macadam, to Lichty Bros., Wellesley, $48,385.

★**Ont., Ottawa**—Bd. Control let contract asphalt paving Wilbrod St. from Nicholas to Charlotte Sts., to A. F. Macallum, city engr., Elgin St., $43,106; Slater St. from Bay to Bronson Aves. and Bessemer St. from Nicholas to Charlotte Sts., to O'Leary Bros., Rideau St., $8977 and $46,935 respectively. Noted July 17.

★**Ont., Welland**—Welland Co. let contract to J. Person, Welland, building 10 mi. waterbound macadam road from Marshville to Port Colburne, cost $99,782, 2½ mi. Bethel Rd., waterbound macadam, $13,860; ½ mi. concrete highway in Ridgeway, $19,-500. Noted July 10.

★**B. C., Esquimalt**—City let contract grading and paving 2¼ mi. Island Highway, 25 ft. wide, to Palmer Bros., 929 Main St., Vancouver. About $75,000.

★**B. C., New Westminster**—Dept. Pub. Wks., Victoria, let contract concrete paving and grading 3 mi. Pacific Highway

Streets and Roads (Continued)

from Westminster Bridge 3 mi. toward Blaine, to H. P. Peterson Constr. Co., Berks Bldg., Vancouver. About $90,000. Government will supply cement. Noted July 24.

Miss., West Point—Drainage—Until Aug. 15, by Comrs. Clay Co., building ditch, 16 ft. wide on bottom, 8 ft. deep, involving 600,000 cu.yd. excav. G. T. Ivy, West Point, attorney.

★**B. C., Vancouver**—City Council let contract paving Pacific St. from Granville to Broughton Sts., and various other streets, asphaltic concrete, to M. P. Cotton Co., Ltd., False Creek. About $50,000. Noted July 10.

Railways

PROPOSED WORK

Michigan—See "Miscellaneous" under St. Ignace.

Oklahoma—K. M. Ward, Richmond Va., O. E. Cope, Waynoka, M. M. Gibbons and D. Carter, Oklahoma City, are forming company and plan to build 53 mi. line between Waynoka and Buffalo, to connect with Atchison, Topeka & Santa Fe R.R. About $800,000. Engineer not selected.

Oregon—Portland & Southwestern Ry., Spalding Bldg., Portland, recently incorporated with $2,000,000 capital stock, plans to build railroad from Portland's southeastern boundary via Waldo Hills and Santiam to Bend. H. S. Huson, ch. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contracts)

★**Oregon**—Oregon Amer. Lumber Co. let contract building 35 mi. standard gauge railroad from Willsbridge via Veronia to Rock Creek, to Utah Constr. Co., Multnomah Hotel, Portland. About $1,500,000.

Excavation and Dredging

PROPOSED WORK

Mich., Detroit—Drainage—See "Sewers."

Wis., Manitowoc—Dredging—City soon lets contract dredging 30,000 cu.yd. in Manitowoc River from Upper Soo Line Bridge to Lower Soo Line Bridge. About $20,000. Bidders to state price for quantities measured in scows. A. H. Zander, city engr.

Ark., Osceola — Redredging — Comrs. Drainage Dist. No. 8, Mississippi Co. having plans prepared by Morgan Eng. Co., engrs., Goodwin Institute, Memphis, Tenn., redredging drainage channels and enlarging outlet.

Tex., Cisco — Excavation—See "Waterworks."

Ore., Bend—Irrigation—Squaw Creek Irrigation Dist. plans to improve irrigation system by building laterals, ditches, flumes and gates. About $15,000.

Cal., Madera—Irrigation—Property owners plan to organize irrigation district comprising 370,000 acres between Foothills, San Joaquin, and Chowhilla River, to build dam in San Joaquin River near Friant, also system of canals. About $15,000,000. L. Hill, Hollingsworth Bldg., Los Angeles, engr.

BIDS DESIRED

Miss., Carrollton—Excavation—Until Aug. 20, by Comrs. Potacowa D.D., Grenada, building channel 2 mi. long, 90 ft. base. Work involves levee 3.2 mi. long, 6 ft. top, 10 ft. average fill, 461,500 cu.yd. dragline excav. and 6 acres clearing. About $70,000. Morgan Eng. Co., Goodwyn Institute, Memphis, Tenn., engrs. Noted Feb. 13.

Mich., Lansing—Drainage—See "Streets and Roads" under Michigan.

Minn., Granite Falls—Ditch—Until Aug. 28, by G. H. Wilson, aud. Yellow Medicine Co., (Granite Falls), and H. O. Thompson, aud. Lac Qui Parle (Madison), building Judicial Ditch No. 2, involving 621,630 cu. yd. 8-24 ft. bottom, 92,008 cu.yd. 6 ft. bottom, 208,200 ft. 6-26 in. tile, 747,380 cu.yd. excav., etc. About $160,396.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Williamstown** — Excavation — Boston & Maine R.R., Boston, will divert Hoosac River between here and Pownal along railroad, involving 272,000 cu.yd. dry earth and rock excav. Work will do away with two railroad bridges. About $250,000. Work will be done by day labor.

N. Y., Brooklyn—Dredging—E. Riegelmann, boro. pres., received bids July 30, dredging Wallabout Canal from Hewes St. to point 1400 ft. north of Hewes St., from New Jersey Shipbuilding & Dredging Co., 66 Orchard St., $18,810. Noted July 24.

★**Ont., Kincardine**—Dredging—Dept. Pub. Wks., Ottawa, let contract for dredging, here, to C. S. Boone Dredging & Constr. Co., Ltd., Excelsior Life Bldg., Toronto. About $10,500.

★**B. C., Victoria**—Canal—Provincial Government let contract building canal for irrigation projects, to A. E. Griffin & Co., Vancouver. About $60,00. Noted July 10.

Industrial Works

PROPOSED WORK

Mass., Gardner—T. A. Dunn & Co. plans to build brick and mill construction addition to factory. About $40,000. Engineer not selected.

Mass., Charlemont—Douglas Packing Co., Rochester, N. Y., soon receives bids building evaporating plant, brick and timber, opposite Boston & Maine R.R. Sta. About $25,000.

Mass., Clinton—L. S. Gottleib, archt., 101 Park Ave., New York City, receives bids about Aug. 15, building 4 story, brick, steel and rein.-con. mill, rein.-con. flooring, brick foundation, for Roubaix Mills, 792 Main St. A. Braciner, 110 West 40th St., New York City, engr. Noted July 17.

Mass., Northampton—J. W. Riley, 132 Pleasant St., soon receives bids building 1 story, 55 x 173 ft. brick and concrete garage, concrete flooring, concrete foundation. About $30,000. Private plans.

Mass., West Upton—Upton Mfg. Co. plans to build 2 story brick and mill construction addition to factory on Williams and Grafton Sts. About $30,000. Private plans.

R. I., Providence—C. B. Bullock, 9 Seekonk St., soon receives bids building 1 story, 21 x 120 ft. garage with 1 story, 21 x 79 ft. ell, brick and concrete, concrete foundation. About $30,000. Private plans.

R. I., Providence—Estate of R. G. Davis, 236-240 Meeting St., soon receives bids building 3 story, 50 x 135 ft. concrete and steel garage and service station, concrete flooring and foundation. About $50,000.

R. I., Providence—H. H. Ford, Thurston St., soon receives bids building 1 story, 44 x 84 ft. concrete garage and service station, concrete flooring and foundation, on Thurston St. and Elmwood Ave. About $25,000.

R. I., Providence—T. F. and W. F. Hussey, 226 Williams St., soon receive bids building 1 story, 50 x 183 ft. brick garage, concrete flooring and foundation. About $35,000.

R. I., Providence—Jenks & Ballou, engrs., 1035 Grosvenor Bldg., soon receive bids building 2 story, 40 x 160 ft. brick and concrete warehouse, concrete flooring and foundation, on Canal St., for What-Cheer-Beef Co., 356 Canal St. About $30,000.

R. I., Providence—Page & Page, archts., 87 Weybosset St., soon receive bids building 2 story, 69 x 143 ft. garage and service station, brick, rein.-con. flooring, concrete foundation, on Benefit and Venckes Sts., for J. Goldman, c/o architects. About $50,000.

R. I., Providence—Page & Page, archts., 87 Weybosset St., soon receive bids building 1 story, 87 x 99 ft. cement concrete garage, concrete flooring and foundation, on Sheldon and Benefit Sts., for M. Kellman, 38 Wickenden St. About $30,000.

R. I., Providence—Weeden Land Co., Broad and Fenner Sts., soon receives bids building 1 story, 60 x 96 ft. garage, service and sales stations, brick, concrete and stone, concrete flooring and foundation. About $25,000. Private plans.

Conn., Bridgeport—Bridgeport Brass Co., Grand St., having plans prepared by H. M. Lane Co., engrs., 701 Owen Bldg., Detroit, for 1 story, 150 x 220 ft., brick, steel and concrete addition to casting shop, rein.-con. flooring, concrete foundation, on Grand St. About $150,000.

Conn., Hartford—C. W. Cramer, 217 Main St., plans to build brick and steel garage. About $35,000. Engineer not selected.

Conn., Hartford—United States Rubber Co., Bway. and 58th St., New York City, plans to build 6 story, 100 x 300 ft., brick and concrete addition to plant, on [illegible]thole- mew St., here.

Conn., Manchester — Orford [illegible] Co., Hilliard St., plans to build brick and mill construction factory and mill. About $40,000. Private plans.

Conn., New Haven—F. T. Cox, Railroad Ave. and New St., plans to convert Old Natl. Casket Co. plant into cold storage plant and building large rein.-con. addition. About $60,000. Engineer not selected.

Conn., Windsor Locks—Ford, Buck & Sheldon, Inc., engrs., 60 Prospect St., Hartford, soon receive bids building 2 story, 84 x 135 ft. addition to factory, and 1 story, 84 x 100 ft. cotton plant, rein.-con., rein.-con. flooring and foundation, here, for J. R. Montgomery Co., Windsor Locks. About $80,000.

N. Y., Albany — Crane Co., 836 South Michigan Ave., Chicago, having plans prepared by Fuller & Robinson, archts., 95 State St., for brick and concrete factory and assembly building, on North Bway., here. Cost betwen $150,000 and $200,000.

N. Y., Buffalo—Pierce-Arrow Motor Co., 1695 Elmwood Ave., plans to build 2 story brick and concrete addition to boiler house. About $100,000.

N. Y., Copenhagen—C. W. Pratt, of Island Paper Co., Tannery Island purchased High Falls hydro-electric development here and plans to double present 1000 hp. installation, by building rein.-con. addition to plant and new 1000 hp. generating unit. Estimated cost $25,000.

N. Y., Johnson City—Endicott-Johnson Co. soon receives bids building 6 story, 60 x 300 ft. rein.-con. factory on Lestershire Lumber & Box Co. site. About $300,000. Address G. F. Johnson, Johnson City.

N. Y., Long Island City—A. G. S. Fletcher, archt. and engr., 103 Park Ave., New York City, receives bids about Aug. 9, building 1 story, 200 x 285 ft., brick, rein.-con. and steel warehouse, rein.-con. flooring, concrete foundation, on Borden Ave., School and Mount Sts., here, for Eggleston Bros., c/o architect.

N. Y., New York—Kelly-Springfield Tire Co., 200 West 57th St., soon lets contract building 4 story, 100 x 115 ft. warehouse and 1 story, 60 x 100 ft. service station, brick and steel, rein.-con. flooring, brick foundation, on 10th Ave. and 54th St. About $100,000. E. Necarsulmer, 507 5th Ave., archt. Noted June 5.

N. Y., New York—J. Pedersen, 148th St. and 3rd Ave., having plans prepared by Moore & Landseidel, archts., 148th St. and 3rd Ave., for 1 story, 65 x 155 ft. brick and steel garage, rein.-con. flooring, brick foundation, on West Farms Rd. and 176th St. About $30,000.

N. Y., New York—J. M. B. Realty Co., 30 East 42nd St., having plans prepared by Gronenberg & Leachtag, archts., 303 5th Ave., for 1 story, 100 x 200 ft., brick, steel and rein.-con. garage, rein.-con. flooring, brick foundation, on 158th St. and New York Central R.R. tracks. About $75,000.

N. Y., Ripley—Ripley Milk Products Co. plans to build cheese and butter plant and pasteurizing station. Cost between $60,000 and $75,000. C. B. Newbury, pres.

N. Y., Rochester—J. H. Smith Co., 247 North Goodman St., plans to build 3 story brick addition to factory. About $80,000.

N. Y., Syracuse—Amer. Agricultural Chemical Co., 92 State St., Boston, purchased site on Barge Canal and Hiawatha St. here, and plans to build 3 story, 180 x 340 ft. rein.-con. warehouse, 2 railroad sidings, concrete unloading pier with 4 overhead unloader, conveyor system and overhead trestle with electric hauling units. Cost between $300,000 and $500,000.

N. Y., Syracuse—H. B. Conkling, 411 Tallman St., purchased 4 story, 50 x 100 ft. warehouse at 115 Otisco St., from Drennan Hardware Co., for Syracuse Rug Co., 11 Tallman St., who plans to build mill construction addition. About $25,000.

N. Y., West Endicott (Endicott P. O.)—Endicott-Johnson Co., Johnson City, plans to build 3 story tannery and 4 story shoe factory, concrete, here. Total cost $350,000. Address G. F. Johnson, Johnson City.

Pa., Erie—Ball Engine Co., 12th and Cranberry Sts., plans to build 1 story, 115 x 185 ft. brick and steel addition to present shovel shop. About $65,000. Osborne Eng. Co., 2848 Prospect St., Cleveland, archts. and engrs.

Pa., Mifflinburg—A. P. Villa & Bro., Inc., 95 Madison Ave., New York City, having plans prepared by W. H. Lee, archt., 32 South 17th St., Phila., building 1 and 2 story, 50 x 151 ft. and 45 x 50 ft. factory, here.

Industrial Works (Continued)

Pa., Pittsburgh—Natl. Casket Co., Chateau and Reedsdale Sts., plans to build 5 story, 60 x 330 ft., rein.-con. factory and office, rein.-con. flooring, concrete foundation, on Reedsdale and Mumford Sts., N. S. About $199,000. W. G. Wilkins Co., Westinghouse Bldg., engr. and archt.

Pa., Turbotville—A. P. Villa & Bro., Inc., 95 Madison Ave., New York City, having plans prepared by W. H. Lee, archt., 32 South 17th St., Phila., building 1 story, 50 x 163 and 50 x 70 ft. factory, here.

Pa., Wilkes-Barre—J. Luksic having plans prepared by H. Maier, archt., Coal Exch. Bldg., for 2 story, 54 x 180 ft., rein.-con., steel and brick garage, rein.-con. flooring, rock foundation, on Washington St. About $50,000.

Md., Baltimore—Fenway Apartment Co., St. Paul and 34th Sts., plans to build 2 story, 54 x 108 ft., concrete and steel garage, cement flooring, concrete foundation. About $55,000. Parker, Thomas & Rice, 1109 Union Trust Bldg., archts.

Md., Baltimore—Hutzler Bros. Co., 212 North Howard St., having plans prepared by F. Baldwin, archt., 328 North Charles St., for 8 story, 60 x 60 x 154 ft., rein.-con. and brick warehouse, concrete foundation, on Saratoga and State Sts. About $85,000.

N. C., Albemarle—Albemarle Mfg. Co. plans to build mill. About $1,000,000. Architect not selected.

N. C., Salisburg—Rowan Cotton Mills Co. plans to build 1 story, 100 x 400 ft., brick factory on South Main St. Extension, to include main factory, storage buildings and 30-40 employees' cottages. R. C. Biberstein, 614 Elizabeth Ave., Charlotte, archt.

O., Akron—Akron Baking Co., 178 South Forge St., having plans prepared by McCormick Co., engrs. and archts., Century Bldg., Pittsburgh, Pa., for 2 story, 69 x 132 ft. rein.-con. and steel addition. About $80,000.

O., Akron—G. W. Albrecht having plans prepared by McCormick Co., archts. and engrs. Century Bldg., Pittsburgh, Pa. for 5 story, 45 x 75 x 150 ft. rein.-con., and steel plant, rein.-con. flooring, concrete foundation. About $150,000.

O., Cleveland—Cleveland Fruit Juice Co., 1390 West 9th St., acquired site on Euclid Ave. and London Rd., and plans to build 3 story, 100 x 140 ft., rein.-con., steel and brick factory. About $80,000. Architect not selected.

O., Cleveland—Colburn Machine Tool Co., 1041 Ivanhoe Rd., acquired site at 1040 Ivanhoe Rd., and plans to build 1 story, 192 x 238 ft., rein.-con., steel and brick factory. About $100,000. Architect not selected.

O., Cleveland—Corday & Gross Co., 113 St. Clair Ave., having plans prepared building 2 story, 135 x 200 ft. rein.-con. steel and brick factory and print shop, on East 24th St. and Chester Ave. About $300,000.

O., Cleveland—Crown Land Co., East 22nd St. and Superior Ave., acquired site on West 3rd St. and Lakeside Ave., and plans to build 6 story, 107 x 125 ft. rein.-con., steel and brick factory, concrete foundation. About $200,000. Architect not selected.

O., Cleveland—Dickey Grabler Mfg. Co., 10302 Madison Ave., plans to build 1 story, 69 x 220 ft. rein.-con. steel and brick machine shop. About $50,000.

O., Cleveland—W. S. Ferguson Co., archts. and engrs., 1900 Euclid Ave., soon receive bids building 2 story, 63 x 262 ft., rein.-con. steel and brick factory addition, on East 131st St. and Kirby Ave. About $75,000.

O., Cleveland—Fulton Fdry. Co., 1209 Marquette Rd., plans to build 1 story, 100 x 111 ft., rein.-con., steel and brick addition to foundry on East 75th St. and Morgan Rd. About $70,000. Architect not selected.

O., Cleveland—Grant Motor Car Co., East 131st St., and Kirby Ave., acquired site here and plans to build 2 story, 63 x 262 ft., rein.-con., steel and brick factory addition, concrete foundation. About $75,000. Architect not selected.

O., Cleveland—Natl. Lamp Wks., Nela Park, having plans prepared by F. E. Willis, archt. and engr., New York City, for factory, 64 x 139 ft., rein.-con., steel and brick service building, concrete foundation. About $150,000.

O., Cleveland—Ohio Carbon Co., 3620 Lorraine Ave., having plans prepared building 1 story, 51 x 100 ft., rein.-con., steel and brick factory, concrete foundation, at 8219 Almira Ave. About $15,000.

O., Cleveland—A. Teachout Co., 321 Prospect Ave., N. W., acquired site on West 20th St. and Lorain Ave., and plans to build 3 story, 100 x 160 ft., rein.-con., steel and brick lumber mill. About $80,000. Architect not selected.

O., Cleveland—Vichek Tool Co., 8711 Mt. Auburn Ave., acquired site and plans to build 1 story, 96 x 256 ft., rein.-con., steel and brick factory addition, concrete foundation. About $60,000. Architect not selected.

O., Cleveland—Willard Storage Battery Co., East 131st St., preparing plans for 2 story, 35 x 137 ft., rein.-con., steel and brick factory addition, concrete foundation, at 246 East 131st St. About $40,000.

O., Dayton—Dayton Wright Airplane Co. plans to build two 1 story, 60 x 300 ft. rein.-con. and brick factories, on Coleman and West 3rd Sts. About $30,000. Private plans.

O., Dayton—Market Realty & Storage Co., c/o F. W. Howell, 957 Reinbold Annex, plans to construct 10 story, 60 x 65 ft. rein.-con. storage building and loft, rein.-con. flooring, concrete foundation. About $250,000. F. J. Highes, Dayton, archt.

O., Madison—See "Waterworks."

O., Newark—Bodenstein & Surmann, archts., 2nd Natl. Bank Bldg., Cincinnati, soon receive bids building 2 story, 30 x 60 ft., rein.-con. and brick power house, rein.-con. flooring, concrete foundation, for W. S. Weld & Son, Newark. About $35,000.

O., Ravenna—New Cascade Tire & Rubber Co. having preliminary plans prepared by Osborn Eng. Co., engrs., 2848 Prospect Ave., Cleveland, for plant to include several 1 and 2 story buildings, rein.-con., steel and brick, concrete foundation. About $1,000,000.

O., Springfield—W. Baley Co., West North St., plans to build 2 story, 65 x 130 ft., rein.-con. and brick addition to factory, rein.-con. flooring, concrete foundation. About $85,000. Private plans.

O., Springfield—Thompson Grinder Co., Main and Murray Sts., plans to build 1 story, 50 x 200 ft., rein.-con. and brick factory and shop, also 1 story, 30 x 60 ft. stuccoed office, concrete foundation, on Main and Zischler Sts. About $65,000. Architect not selected.

Mich., St. Ignace—See "Miscellaneous."

Ill., Chicago—Creamery Package Co., 61 West Kinzie St., plans to build plant on Division St. and Kostner Ave. to consist of group of buildings, including office, warehouse, etc. About $250,000. Architect not announced.

Ill., Chicago—Economy Machine Products Co., 4755 London Ave., plans to build 160 x 200 ft. factory, on Lawrence and Lipps Aves. Cost over $100,000. Architect not selected.

Ill., Chicago—D. S. Klafter, archt., 64 West Randolph St., soon receives bids building 3 story, 75 x 100 ft. mill construction factory, concrete foundation, on Robey St. and Wilmot Ave., for Ozark Garment Mfg. Co., 1718 North Robey St. About $75,000.

Ill., Chicago—L. Lehle, archt., 38 South Dearborn St., soon receives bids building 1 and 2 story, 75 x 125 ft. and 50 x 125 ft. brick, steel and concrete factory, concrete foundation, on Seminary Ave. near Cornelia Ave., for Westerlin & Campbell Co., 26 North Clinton St.

Ill., Chicago—Wahl Co., 1800 North Roscoe St., soon receives bids building 5 story, 125 x 150 ft. rein.-con. factory, rein. con. flooring, concrete foundation, on Roscoe and Lincoln Sts. About $225,000. B. H Prack, Keystone Bldg., Pittsburgh, Pa., archt.

Wis., Kohler—Kohler Co., plans to build 2 story, 180 x 260 ft. brick, rein.-con. and steel factory, brick foundation. About $60,000. Brust & Philipps, Free Press Bldg., Milwaukee, archts.

Minn., Minneapolis—Berman Bros., 227 North 1st St., having plans prepared by Long, Lamoreaux & Long, archts., 1028 Andrus Bldg., for 4 story, 84 x 105 ft., warehouse, rein.-con., on 9th Ave., S., and 3rd St. About $75,000.

Minn., Minneapolis—Northwestern Catalog Co., 800 Phœnix Bldg., rejected bids building 4 story, 100 x 100 ft., brick and tile warehouse, rein.-con. flooring. About $100,000. Long, Lamereaux & Long, archts., 1028 Andrus Bldg., will revise plans. Noted May 1.

Neb., Omaha—M. E. Smith & Co., 9th and Farnam Sts., plans to build 8 story, 100 x 132 ft. factory on 10th and Douglas Sts. About $400,000. F. S. Stott, 216 Kennedy Bldg., archt.

Mo., Booneville—Hamilton-Browne Shoe Co., 12th and Washington Sts., St. Louis, soon receives bids building rein.-con. and steel factory, rein.-con. flooring, here. About $50,000. F. C. Taxis, Chemical Bldg., St. Louis, engr.

Mo., Carthage—Platt-Porter Wholesale Grocery Co. having plans prepared building 2 story, 50 x 160 ft. concrete and stone warehouse, rein.-con. flooring, concrete foundation, on 6th and Main Sts. About $55,000. P. K. Simpson, Carthage, archt.

Mo., St. Joseph—Grant Motor Co., Frederick Ave., rejected bids building 2 story, 120 x 140 ft. garage, on 10th and Edmond Sts. About $55,000. R. Meier, 2526 Jule St., archt. Noted July 3.

Mo., St. Joseph—Western Tablet Co., 11th and Mitchell Sts., having plans prepared by R. Meier, archt., 2526 Jule St., for 6 story, 142 x 160 ft., rein.-con., steel and brick factory, rein.-con. flooring, concrete foundation. About $250,000.

Tex., Dallas—Proctor & Gamble, Gwynne Bldg., Cincinnati, having plans prepared for refinery and factory, here. About $2,000,000.

Colo., Denver—T. Roberts, 1235 Bway., soon receives bids building 100 x 125 ft. rein.-con., steel and brick garage, concrete foundation, on 11th and Bannock Sts. About $90,000. J. J. Huddart, 409 Bank Bldg., archt.

Wash., Everett—City having preliminary plans prepared developing electric power water plant, 5000-6000 hp. Work involves enlarging present dam and building new one, and constructing tunnel through rock walls. Cost to exceed $10,000.

Wash., Spokane—Spokane Drug Co., 707 Railroad Ave., plans to build 5 story, 116 x 142 ft., steel and concrete factory, rein.-con. flooring, on Wall and Railroad Aves. About $200,000. Architect not selected.

Wash., Vancouver—Clarkes Lumber & Mfg. Co. has acquired 8 acre site and plans to build industrial plant including 1 story, 48 x 112 ft. warehouse and 22 x 104 ft. dry kiln. About $55,000.

Ore., Bend—Oregon Nitrate Co. plans to build crushing plant and install crystallization evaporating system to develop Stinking Lake and Sheep Mountain nitrate deposits. About $25,000. J. H. Morgan, pres.

Ore., Medford—Gagnon Lumber Co. plans to rebuild 1 story timber saw mill near here, to replace one recently destroyed by fire. About $25,000. Private plans.

Cal., Santa Paula—Mupu Citrus Assn having plans prepared by Allison & Allison, archts, 1405 Hibernian Bldg., Los Angeles, building 2 story, 80 x 100 ft., rein.-con. packing house, concrete foundation.

Cal., Santa Paula—Santa Paula Citrus Assn. having plans prepared by Allison & Allison, archts., 1406 Hibernian Bldg., Los Angeles, for 2 story 100 x 100 ft., hollow tile and concrete addition to packing house, concrete foundation.

Ont., Brantford—Cockshutt Plow Co. plans to build 1 and 4 story, 50 x 60 ft. and 100 x 145 ft., rein.-con. and brick factory, concrete foundation. About $100,000. Private plans.

Ont., Collingwood—Imperial Steel & Wire Co., Harbor St., plans to rebuild plants destroyed by fire. About $500,000. Private plans.

Ont., Hamilton—Carr Fastener Co., Boston, Mass., purchased 2½ acre site here and plans to build factory. About $125,000. Private plans.

Ont., Hamilton—I. Spencer Taner & Co. purchased site and plans to build factory. About $250,000. Address W. S. Scott, 28 Meplende Ave.

Ont., Sarnia—Wills-Lee Book Bldg., Detroit, Mich., purchased 250 acre site along St. Clair River south of here, and plan to build first unit of factory.

B. C., Merritt—Nicola Pine Mills, Ltd., purchased 250 acre site here and plans to build new mills. About $250,000. H. C. Meeker, mgr. Private plans.

BIDS DESIRED

Conn., Bridgeport—Until Aug. 16, by E. G. Southey, archt., 983 Broad St., for 2 story brick and concrete building, to include stables, garage and storage plant, at Seaside Park, for city. About $50,000. Noted July 3.

Industrial Works (Continued)

Conn., Hartford—Until Aug. 15, by R. A. Sellew, archt., 756 Main St., building 1 story, 90 x 100 ft. garage, with 30 x 30 ft. ell, and 2 story, 40 x 60 ft. office and showroom, brick and terra cotta, concrete flooring and foundation, on Washington St., for Hartford Buick Co., 51 Elm St. About $50,000.

Pa., Ephrata—W. E. S. Dyer, archt., Land Title Bldg., receiving bids building 4 story, 50 x 50 ft. brick and concrete factory, for H. Eby Shoe Co.

Pa., Phila.—J. Miller & Sons Co., 16th and Reed Sts., receiving bids for 3 and 5 story, 90 x 118 ft., rein.-con. and brick factory. F. E. Hahn, 1112 Chestnut St., archt.

Pa., Pittsburgh—Waverly Oil Co., 54th St. and Allegheny Valley Street Ry., receiving bids constructing 6 story, 71 x 81 ft. oil storage building and office, rein.-con. flooring, concrete foundation. R. M. Trimble, Ferguson Bldg., archt.

Ill., Chicago—R. C. Harris, archt., 190 North State St., receiving bids for 2 story, 100 x 250 ft. rein.-con. factory, rein.-con. flooring, concrete foundation, on 30th St. and Sawyer Ave., for Apex Appliance Co., 3231 West 30th St. About $250,000.

Ill., Wilmette—C. W. Westerlind, archt., 79 West Washington St., Chicago, receiving bids building 3 story, 50 x 125 ft. rein.-con. storage warehouse, rein.-con. flooring, concrete foundation, for Warble Furniture Co., Wilmette. About $65,000.

Ont., London—Until Aug. 16, by Greene Swift Co., building 4 story, 40 x 100 ft., concrete and brick addition to factory, concrete foundation, on Talbot St. About $50,000. W. G. Murray, Dominion Savings Bldg., archt.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., East Springfield** (Springfield P. O.)—Springfield Tool Co., Inc., 125 Dwight St., Springfield, let contract building 1 and 2 story, 90 x 200 ft., brick and mill construction factory and office, rein.-con. flooring, concrete foundation, on Depot and 2nd Sts., to F. T. Ley Co., 499 Main St., Springfield. About $55,000. Noted July 31.

★**Mass., Watertown**—Aetna Mills let contract building 4 story, 75 x 160 ft. brick and mill construction addition to plant, concrete foundation, to H. Wales-Lines Co., 134 State St., Meriden, Conn. About $100,000.

★**Mass., Westfield**—Westfield Candy Co., 132 Elm St., let contract building 2 story brick and cement factory, rein.-con. flooring, concrete foundation, to H. A. Bosshart, 42 Noble St. About $40,000. Noted Apr. 17.

★**Mass., Willimansett** (Holyoke P. O.)—G. Haarmann & Co., Inc., Commerce St., Holyoke, will build 3 story, 60 x 250 ft., brick plant, here. Cost between $50,000 and $75,000. Work will be done by day labor. Noted June 26 under "Holyoke."

★**R. I., Providence**—K. B. Ely, Boston, let contract building 1 story, 50 x 85 ft. garage, sales and service station, brick, steel and concrete, on Reservoir St., to E. H. Bigney, 17 Custom House St. About $30,000. Noted July 17.

★**R. I., Providence**—S. Waldman, 129 Blackstone St., let contract building 3 story, 28 x 100 ft. brick and mill construction addition to factory, to C. I. Bigney Constr. Co., 898 Westminster St. About $28,000.

★**R. I., Woonsocket**—Barnai Worsted Co., South Main St., let contract building 1 story 35 x 130 ft. and 35 x 40 ft. brick and mill construction dyehouse and boiler house, to J. H. Grozier Co., 756 Main St., Hartford. About $25,000. Incorrectly noted in our issue of July 24.

★**Conn., Bridgeport**—J. W. Skinner, archt., 1188 Main St., let contract to T. J. Pardy Constr. Co., 15 Fairfield Ave., for 2 story, 45 x 85 and 38 x 70 ft. factory, office and storage, brick, concrete foundation, on Water St., here, for J. D. Johnson Co., 54 Cliff St., New York City. About $35,000. Noted June 26.

★**Conn., Hartford**—Ford, Buck & Sheldon, archts. and engrs., 60 Prospect St., let contract to Portens-Walker Co., 13 Forrest St., building 2 story, 50 x 200 ft. rein.-con. addition to factory, rein.-con. flooring, concrete foundation, for Arrow Electric Co., 99 Hawthorne St. About $40,000. Noted July 24.

★**Conn., Middletown**—Russell Mfg. Co., South Farms, let contract building 1 story, 49 x 155 ft., brick and mill construction addition to factory, concrete flooring, concrete foundation, to D. O'Brien & Sons, Inc., 118 Asylum St., Hartford. About $28,000.

★**N. Y., Brooklyn**—S. Z. Ageloff, 126 Reid Ave., will build 1 story, 100 x 125 ft., brick and steel garage, rein.-con. flooring, brick foundation, on Bainbridge St. and Lewis Ave. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Adreff Constr. Co., 467 Hendrick St., will build 3 story, 90 x 140 ft., brick and steel machine shop, rein.-con. flooring, concrete foundation, on Liberty Ave. and Barbey St. About $80,000. Work will be done by day labor.

★**N. Y., Brooklyn**—M. Barslow, c/o A. Farber, archt., 1746 Pitkin Ave., will build 1 story, 100 x 120 ft., brick and steel laundry, brick foundation, on Neptune Ave., between 21st and 22nd Sts. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—M. Black Realty Co. will build 1 story, 85 x 120 ft. brick and steel garage, brick foundation, on Utica Ave. and Herkimer St. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—R. Foustin, 40 Myrtle Ave., will build 1 story brick and steel garage, rein.-con. flooring, brick foundation, on Myrtle and Lewis Aves. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—I. Levy, 17 Marcy Ave., will alter 2 story, 100 x 100 ft. brick and steel factory, rein.-con. flooring, on Metropolitan Ave., near Graham Ave. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—M. Segar, Passaic, N. J., will build 1 story, 105 x 135 ft. brick and steel garage, rein.-con. flooring, brick foundation, on Coney Island Ave. near Foster Ave., here. About $25,000. Work will be done by day labor.

★**N. Y., Lockport**—Harrison Radiator Co., Washburn St., let contract building 3 story, 163 x 397 ft., brick and rein.-con. warehouse, rein.-con. flooring, concrete foundation, to J. W. Cowper Co., Fidelity Bank Bldg., Buffalo. About $100,000.

★**N. Y., Long Island City**—L. Gold, 44 Court St., Brooklyn, will build 1 story, 100 x 150 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on Jamaica Ave. near 102nd St., here. Work will be done by day labor.

★**N. Y., Long Island City**—H. J. Houpert, Harris Ave. and Marion Pl., let contract altering and building 1 story, brick and steel addition to factory, rein.-con. flooring, concrete foundation, to J. O. Whitenack, 231 West 18th St., New York City. About $25,000.

★**N. Y., Long Island City**—Patterson-Sargent Co., 8 Jay St., New York City, will build 4 story, 40 x 110 ft., brick and steel factory, rein.-con. flooring, on Van Dam St. and Borden Ave., here. About $200,000. Work will be done by day labor under supervision of Ballinger & Perrott, archts. and engrs., 47 West 34th St., New York City. Noted June 10.

★**N. Y., Newburg**—Sweet Orr & Co., Inc., 15 Union Sq., New York City, let contract altering and building additions to plant here, to T. C. Desmond Co., 31 Nassau St., New York City. About $100,000.

★**N. Y., New York**—H. O. Chapman, archt., 334 5th Ave., let contract to Fountain & Choate, 110 East 23rd St., building 7 story, 50 x 100 ft., brick and steel publishing house, brick foundation, for Street & Smith, 161 West 15th St. About $125,000. Noted July 10.

★**N. Y., New York**—Hillman Co., 567 3rd Ave., will build 1 story, 99 x 120 ft., brick and steel garage, rein.-con. flooring, concrete foundation, at 237-245 East 41st St. About $25,000. Work will be done by day labor. Noted June 12.

★**N. Y., New York**—King Phillip Chocolate Co., 44 Whitehall St., let contract building 5 story rein.-con. and steel factory, rein.-con. flooring, concrete foundation, with 65,000 sq.ft. floor space, at 127 East 12th St., to J. O. Whitenack, 231 West 18th St. About $30,000.

★**N. Y., New York**—J. O'Flaherty, 371 West 148th St., let contract building 3 story, 75 x 101 ft., brick and steel printing plant, rein.-con. flooring, concrete foundation, on 48th St. and Cortlandt Ave., to G. H. McEntee, 1123 Bway. About $60,000.

★**N. Y., Oswego**—Oswego Candy Co., 275 West 1st St., let contract building 4 story brick, rein.-con. and steel factory, on Utica and 2nd Sts., to P. Raby Contg. Co., 23 West Cayuga St. About $50,000.

★**N. Y., Schenectady**—Le Valley [illegible] Kincaid Co. let contract constr[illegible] story factory and store building, [illegible] ft. frontage, brick and steel, [illegible] Guysling Ave., to Brown & Low[illegible] Ave. About $75,000.

★**N. Y., Syracuse**—H. H. Frank[illegible] Co., 302 South Geddes St., let contract building 7 story, 120 x 240 ft., [illegible] factory, rein.-con. flooring, concre[illegible] foundation, on West Marcellus and [illegible] Sts., to W. J. Burns Co., Keith [illegible] Bldg. About $400,000. Noted May [illegible]

★**N. Y., Syracuse**—Hammond Steel Co., 1400 Milton Ave., Solvay, let contracts building 80 x 260 ft. and 40 x 60 ft. concrete plant, here, to Levering & Garrigues Constr. Co., 552 West 23rd St., New York City, and Dawson Bros. Contg. Co., Union Bldg. About $250,000.

★**N. J., Camden**—Eavenson & Levering, 217 Atlantic St., let contract building 3 story, 80 x 132 ft. rein.-con., brick and steel addition to factory, to G. Kessler Constr. Co., Denckla Bldg., Phila. About $40,000.

★**N. J., Newark**—Cellulose Co., c/o Lockwood & Greene, archts. and engrs., 1[illegible] Park Ave., New York City, let contract building 1 story, 28 x 68 ft., rein.-con. and steel factory, concrete foundation, to J. W. Ferguson, Paterson. About $50,000.

★**Pa., Phila.**—Collins & Aikman, 4675 Nixon St., let contract building 4 story, 62 x 160 ft. rein.-con. factory, on 51st St. and Leidy Ave., to W. Steele & Sons Co., 16th and Arch Sts.

★**Pa., Phila.**—Drueding Bros. Co., 5th and Master Sts., let contract building 9 story, 91 x 100 ft. rein.-con. and brick factory, to W. Steele & Sons Co., 16th and Arch Sts.

★**Pa., Phila.**—Powers, Weightman & Rosengarten, 916 Parrish St., let contract building 5 story, 25 x 31 ft., 35 x 58 ft., 35 x 72 ft. and 35 x 80 ft., brick additions to factory on Brown and Hutchinson Sts., to R. C. Ballinger & Co., 218 North 13th St. About $45,000.

★**Pa., Phila.**—Rosenblum & Jaffe Bros., 419 South St., let contract building 5 story, 50 x 100 ft., brick and terra cotta warehouse at 521 South 4th St., to B. Bornstein, 1512 North Franklin St. About $50,000.

★**Pa., Pittsburgh**—Atlantic Refining Co., Chamber Commerce Bldg., will build 1 story, 45 x 125 ft., rein.-con. and brick boiler house, concrete foundation. About $25,000. Work will be done by day labor.

★**Pa., Pittsburgh**—Denny Estate, 4th Ave., let contract rebuilding 4 story, 100 x 120 ft., rein.-con. and brick storage building, rein.-con. flooring, concrete foundation, on 29th St. and Liberty Ave., to B. A. Groah Constr. Co., 847 West North St. About $50,000.

★**Pa., Pittsburgh**—Pittsburgh Rolls Corp., 41st and Willow Sts., let contract building brick and steel annealing furnace and coke ovens, rein.-con. foundation, to S. R. Smythe, House Bldg. About $26,000.

★**Pa., Reading**—Phila. & Reading R. R., Reading Terminal, Phila., let contract building 1 story, 38 x 50 ft. rein.-con. and brick power house, here, to R. E. Lamb, 841 North 19th St., Phila.

★**Pa., Shamokin**—Hewesco Silk Co. let contract building 2 or 3 story, 59 x 90 ft., rein.-con. and brick factory, to Shamokin Lumber & Mfg. Co., 37 South 5th St. Noted July 17.

★**Pa., Wyncote**—D. Wentz let contract building 1 story, 56 x 97 ft. stone and frame garage, to F. T. Mercer Co., 1706 De Lancy St., Phila. About $30,000.

★**Md., Baltimore**—Amer. Ice Co., 309 Calvert Bldg., let contract building 1 story, 28 x 160 ft., rein.-con. and brick garage, rein.-con. flooring, concrete foundation, on Franklin St. near Pulaski St., to H. S. Rippel, 1929 West Baltimore St. About $50,000.

★**Md., Baltimore**—Shapiro & Roney, Pratt St. and Fremont Ave., let contract building 2 story, 75 x 178 ft., rein.-con. and brick warehouse, concrete foundation, to Price Constr. Co., 210 Maryland Trust Bldg. About $65,000. Noted July 24.

★**N. C., Greenville**—Greenville Cotton Mills, Inc. will build 80 x 257 ft. brick factory. About $250,000. Work will be done by day labor.

★**Ala., Ensley**—Ensley Motor Co., Ave. H, Birmingham, let contract building 2 story, 75 x 140 ft. brick garage and repair shop, at Ave. E and 20th St., here, to P. E. Bostick, 1st Nat'l Bank Bldg., Birmingham. About $45,000

Industrial Works (Continued)

★O., **Cleveland**—Advertype Co., 1823 East 23rd St., let contract building 2 story, 80 x 115 ft., rein.-con., steel and brick publishing house, to W. Dunbar Co., 8201 Cedar Ave. About $50,000. Noted July 3.

★O., **Cleveland**—P. A. Gier Co., 5112 St. Clair Ave., let contract building 2 story, 60 x 200 ft., rein.-con., steel and brick machine shop, at 534 East 105th St., to Minnick & Gibbons, 5309 Prospect Ave. About $75,000. Noted July 31.

★O., **Cleveland**—Superior Fdry. Co., East 71st St., let contract altering and building 2 story, 75 x 200 ft., concrete, steel and brick addition to foundry, to Austin Co., 16112 Euclid Ave.

★O., **Dayton**—Ohio Mitchell Sales Co., 1st and St. Clair Sts., let contract building 2 story, 80 x 176 ft. rein.-con., garage and salesroom, rein.-con. flooring, concrete foundation, on Main and Riverdale Sts., to C. W. Bittner, 22 East Bittner St. About $35,000. Noted June 26.

★O., **Marion**—Amer. Malleable Castings Co. let contract building 1 story, 70 x 75 and 60 x 70 ft., rein.-con., steel and brick foundry addition, to J. Baldauf & Co., Marion. About $50,000. Noted July 31.

★O., **Springfield**—Superior Gas Engine Co., Sheridan Ave., let contract building 2 story, 60 x 150 ft., rein.-con. machine shop, concrete flooring; 1 story, 110 x 280 ft., steel foundry, rein.-con. flooring and foundation, and 1 story, 95 x 160 ft., rein.-con. storage house, to T. A. Graham, Sheridan Ave. About $125,000. Noted June 26.

★**Mich., Detroit**—Chevrolet Motor Co., 1244 Woodward Ave., let contract constructing 1 story, 106 x 150 ft., rein.-con., brick and steel service building, rein.-con. flooring, concrete foundation, on York and Cass Aves., to A. J. McLean Bldg. Co., 307 Stevens Bldg. Noted July 24.

★**Mich., Detroit**—Detroit Steel Products Co., East Grand Blvd., let contract building 1 story, 80 x 198 ft., sash factory, steel and cement stone, rein.-con. and creosoted wood block flooring, concrete foundation, to Cooper Widenmann Co., 854 Penobscot Bldg.

★**Mich., Detroit**—Fisher Body Corp., Piquette Ave., let contract building 6 story, 156 x 581 ft., rein.-con. and brick shop, rein.-con. flooring, concrete foundation, on Piquette Ave. and St. Antoine St., to H. G. Christman Co., 315 Stevens Bldg., $1,200,000. Noted July 17.

★**Mich., Detroit**—Ford Motor Co., Highland Park, let contract constructing 1 story, 100 x 313 ft., rein.-con. and tile, dry kiln building, rein.-con. flooring, concrete foundation, to H. G. Christman Co., 315 Stevens Bldg. About $100,000.

★**Ill., Chicago**—Chicago & Northwestern R.R., 226 West Jackson Blvd., let contract building rein.-con. grain elevator, 1,000,000 bushels capacity, to Witherspoon-Englar Co., 53 West Jackson Blvd. About $1,000,000.

★**Ill., Chicago**—Hoeft & Co., 400 North Ashland Ave., let contract building 1 and 2 story, 120 x 120 ft. brick and timber addition to factory, concrete foundation, on Kinzie St. near Paulina St., to Menke-Thielberg Co., 139 North Clark St. About $35,000. Noted July 17.

★**Ill., Chicago**—L. Melind Co., 183 West Madison St., let contract building 3 story, 50 x 125 ft. mill construction factory, concrete foundation, at 362-364 West Chicago Ave., to J. Hammond Co., 68 West Washington St. About $50,000.

★**Ill., Chicago**—A. Pick & Co., 212 West Randolph St., let contract building 5 story irregular shaped, rein.-con. addition to warehouse, rein.-con. flooring, concrete foundation, to have 200,000 sq.ft. floor space, on 35th St. and Racine Ave., to E. W. Sproul Co., 2001 West 39th St. About $400,000.

★**Ill., East St. Louis**—Kellor Flour Mills, 420 South Front St., will build 4 story, 85 x 125 ft., concrete, brick and steel mill, rein.-con. flooring, rock foundation. About $60,000. Work will be done by day labor.

★**N. D., Fargo**—F. L. Berry, 311 1st Ave. N., let contract building 4 story, 55 x [illegible] ft., concrete and brick garage, to Menke Johnson Constr. Co., Fargo. About $75,000.

★**Wyo., Cheyenne** — International Harvester Co. let contract building 3 story, 132 x [illegible] ft., concrete warehouse and office, to Midland Eng. Constr. Co., 332 South Michigan St., Chicago. About $100,000.

★**Mont., Great Falls**—Great Falls Iron Wks., 13th St. and 8th Ave., N., let contract building 1 story, 100 x 150 ft. addition to foundry, to Thiesen Co., Great Falls. About $50,000.

★**Mo., St. Louis**—Johansen Bros. Shoe Co., 3645 Laclede Ave., let contract building 5 story, 53 x 102 ft., steel and brick factory, rein.-con. flooring, concrete foundation, to Western Constr. Co., Century Bldg. About $50,000.

Cal., Los Banos — California Central Creameries Co., c/o H. J. Brunnier, engr., Sharon Bldg., San Francisco, received bids building 1, 2 and 3 story, 150 x 150 ft., creamery, power house and 2 small warehouses, rein.-con., brick and steel, concrete foundation, from Lange & Bergstrom, Sharon Bldg., $66,600; G. W. Boxton, Hearst Bldg., $67,899; Duncan & Co., Sharon Bldg., $70,100. All contractors of San Francisco.

★**Cal., San Francisco**—E. C. Voorhies let contract building 4 story, 135 x 350 ft., rein.-con. warehouse, rein.-con. flooring, concrete foundation, on Kearny and Francisco Sts., to Cahill & Vensano Co., French Bank Bldg. About $250,000. Address owner, c/o contractors.

★**Que., Montreal**—Letrault Shoe Mfg. Co., Co., 331 De Montigny St. E., let contract building steel and brick factory, to A. Gratton, 142 5th Ave. About $85,000.

★**Ont., Brantford**—Brantford Smelting let contract building 1 story, 100 x 200 ft. concrete and brick plant, concrete foundation, to P. H. Secord, 133 Nelson St. About $50,000.

★**Ont., London**—H. C. McBride, archt., Molsons Bank Bldg., let contract building 5 story, 150 x 250 ft., rein.-con. and brick factory, concrete foundation, on St. George St., for C. S. Hyman & Co., Richmond St., to P. H. Secord & Sons, 133 Nelson St., Brantford. About $200,000. Noted July 31.

Buildings

PROPOSED WORK

Mass., Boston—Bank—First Natl. Bank, 70 Federal St., purchased Equitable Bldg. on Milk St. and properties immediately in rear, comprising an area of over 20,800 sq. ft. extending 108 ft. on Milk St. and 171 ft. each upon Devonshire and Federal Sts. and plans to erect bank building. About $2,000,000.

Mass., Chicopee—School—Bd. Educ. plans to build 6 room school on Chicopee St. About $50,000. Architect not selected.

Mass., Fall River—School—Bd. Educ. plans to build brick, steel and concrete school in Bower St. Sect. About $60,000. Engineer not selected.

Mass., Fall River—School—Bd. Educ. plans to build fireproof grammar school on New Boston Rd. Architect not selected.

Mass., Northampton — Memorial — City plans to reconstruct and convert Clarke Library into memorial building for soldiers and sailors. About $250,000. Engineer not selected.

Mass., Pittsfield—Church—First Church of Christ Scientist, 131 South St., purchased site on Wendall Ave. and plans to build brick church. About $50,000. Engineer not selected.

Mass., Shrewsbury—Church — Methodist congregation plans to build brick church. About $60,000. F. E. Smith, pastor. Engineer not selected.

Mass., Springfield—Hotel—D. H. Sievers & Co., Hillman St., plans to build 6 story addition to Highland Hotel. About $200,000. Engineer not selected.

Mass., Springfield—Temple—Masonic Order, Main and State Sts., plans to build fireproof temple on State and Myrtle Sts. About $500,000. Architect not selected.

Mass., Willimansett (Holyoke P. O.)—Housing—G. Haarmann & Co., Inc., Commerce St., Holyoke, plans to build group of 2 story brick and timber houses for workmen, concrete, rock and brick foundation, here. About $100,000.

Mass., Winchendon—Memorial—N. D. and J. N. White, Jr., Winchendon Springs, plan to construct memorial building here, to late J. N. White, Sr., to include community, clubhouse and athletic field. About $100,000. Architect not selected.

R. I., Pawtucket—Synagogue—Marshak & Hickey, archts., 310 Strand Bldg., Providence, soon receive bids building 60 x 70 ft. brick and concrete, concrete and stone foundation, on Jackson St., for Congregation Ohave Sholan, Jackson and High Sts. About $50,000. Noted May 1.

Conn., Bridgeport—School, Convent, etc.—St. Cyril & Methodius Roman Catholic congregation, Church St., having plans prepared by B. Wozny, archt., 381 Main St., Springfield, Mass., for school house and assembly hall, cost $175,000; 16 room convent, $5000 and rectory, $25,000. J. Panik, pastor. Noted July 3.

Conn., Hartford — Theatre, etc. — See "Miscellaneous."

Conn., Meriden—Y. M. C. A. plans to erect new building on West Main St. About $60,000. Jallade, Lindsay & Warren, 37 Liberty St., New York City, archts.

Conn., New Britain—Home, etc.—Knights of Columbus, Daly Council, 434 Main St., plans to build home and club on Main St. About $200,000. Architects not selected.

Conn., Ridgefield — Bank — First Natl. Bank, Main St., having plans prepared by E. Greene, archt., 5 Beekman St., New York City, for 1 story, brick and marble. About $50,000.

Conn., Tariffville — School — Simsbury Twp., plans to build 6 room brick school on Winthrop St., here. About $50,000. Architect not selected.

Conn., Thompsonville — Housing — Bigelow-Hartford Carpet Co., 58 Main St., soon receives bids building thirty brick and timber houses for workmen, concrete and stone foundation. About $125,000. Private plans.

Conn., Windsor—School—Town plans to build school in Dist. No. 3. About $50,000. Engineer not selected.

N. Y., Albany—Hall—F. F. Proctor Co., 69 North Pearl St., plans to repair and alter Harmannus Bleecker Hall, 161 Washington St., brick and rein.-con. About $75,000.

N. Y., Buffalo—Office—Buffalo Enquirer Co., 250 Main St., having plans prepared by E. B. Green & Son, archts., 75 Niagara St., for 30 story, 86 x 100 ft., concrete and steel, concrete foundation. About $500,000.

N. Y., Buffalo—Office—Buffalo Fdry. & Machine Co., 1543 Fillmore Ave., plans to build 2 story, 70 x 90 ft., brick and rein.-con., rein.-con. flooring, concrete foundation, on East Ferry St. About $70,000. North, Sheldgreen & Swift, Niagara Life Bldg., archts.

N. Y., Buffalo—Theatre—W. F. McDonald, Hertel Ave., plans to build brick and concrete on Hertel Ave., between Park and Norwalk Aves. About $200,000.

N. Y., Lockport—Theatre—Victoria Theatre Assn. plans to build brick, concrete and steel theatre on Main and Elm Sts. About $150,000. W. N. Cross, Lockport, chn. bldg. com.

N. Y., Mineola—Hospital—Nassau Hospital having preliminary plans prepared by Lord & Hewlet, archts., 343 5th Ave., New York City, for altering and building brick, stone and steel addition, brick foundation. About $300,000.

N. Y., New York—Office—Amer. Realty Co., 71 Bway., having plans prepared by A. C. Jani, archt. and engr., 71 Bway., for altering 16 story, brick and steel, at 32 Bway. About $100,000.

N. Y., New York—Restaurant and Store—New York Central R.R., 70 East 45th St., having plans prepared by Warren & Wetmore, archts. and engrs., 16 East 47th St., for alterations to brick and steel, at 3-11 Vanderbilt Ave. About $1,000,000.

N. J., Asbury Park—High School—School Bd. plans to purchase 20 acre site west of Pine St. and build school. Cost to exceed $300,000. J. G. Coleman, comr. bd. educ.

N. J., Plainfield—School—Bd. Educ. soon lets contract building 2½ story, 55 x 150 ft., brick and steel, brick foundation on Emerson Ave. About $140,000. Incorrectly noted in our issue of July 24.

N. J., Trenton—Hotel—Stacy-Trent Hotel Co., Broad St. Bank Bldg., soon receives bids building 10 story, rein.-con., brick and steel. About $1,000,000. W. A. Klemann, 1st Natl. Bank Bldg., archt. J. O. Hunt, 144 North Montgomery St., engr.

Buildings (Continued)

Pa., Lansdale—Church—Methodist Episcopal congregation having plans prepared by G. E. Savage, archt., Witherspoon Bldg., Phila., for 1 story, 55 x 110 ft. stone. About $50,000.

Pa., Phila.—Hospital—Dept. Health and Charities soon receives bids altering and building 3 story, 40 x 62 ft. 40 x 50 ft. and 31 x 47 ft., brick and stone, for contagious diseases. About $300,000. P. H. Johnson, 1713 Sansom St., archt. and engr.

Pa., Pittsburgh—Office—See "Industrial Works."

Pa., Pittsburgh — High School — Bd. Educ., Fulton Bldg., having plans prepared by Alden & Harlow, archts., Farmers' Bank Bldg., building 4 story, steel and brick addition to South Hills High School, on Ruth St. About $911,200.

Pa., Pittsburgh—School—Bd. Educ., Fulton Bldg., plans to build 3 story, 65 x 125 ft., steel and brick addition to Gladstone Elementary School, concrete foundation. About $238,000. O. M. Topp, Jenkins Arcade, archt.

Pa., Pittsburgh—School—Bd. Educ., Fulton Bldg., having plans prepared by E. Stotz, archt., Monongahela Bldg., building 2 story, 64 x 158 ft., brick and steel addition, brick and concrete foundation, on South 9th and Carsons Sts. About $221,400.

Pa., Pittsburgh—School—Bd. Educ., Fulton Bldg., having plans prepared by Kiehnell & Elliott, archts., 245 4th Ave., for 3 story, 75 x 340 ft., with 65 ft. wing, steel and brick, rock foundation, on Greenfield Ave., to be known as Greenfield Elementary School. About $598,720.

Pa., Pittsburgh—School—Bd. Educ., Fulton Bldg., having plans prepared by P. C. Bowler, archt., Magee Bldg., for 3 story, 70 x 320 ft., with 40 ft. wing, brick and steel, concrete foundation, to be known as Beechwood Elementary School. About $553,040.

Pa., Pittsburgh—High School—Bd. Educ., Fulton Bldg., had plans prepared by McClure & Spahr, archts., Keystone Bldg., for 3 story, 170 x 303 ft., brick and steel, concrete foundation, in Sheridan Dist., to be known as Samuel P. Langley High School. About $664,500.

Pa., Pittsburgh—School—Bd. Educ., Fulton Bldg., having plans prepared by R. M. Trimble, archt., Ferguson Blk., for 3 story, 130 x 242 ft., steel and brick addition to Perry Elementary School, on Perrysville Ave. About $612,000.

Pa., Wilkes-Barre — Church — Syrian Greek Catholic congregation plans to build 2 story, 40 x 80 ft., brick, stone and steel, stone foundation, on Park Ave. About $80,000. C. R. Rinehimer, 10 Airy St., archt.

Md., Boomsboro—Mausoleum—City having plans prepared building 29 x 50 ft., rein.-con., granite and bronze community mausoleum.

Va., Pulaski—Theatre, Stores and Offices—S. Dalton had plans prepared by J. R. Forsythe, archt., 232 St. Paul St., Baltimore, Md., for 3 story, 76 x 180 ft., brick and rein.-con., concrete foundation. About $60,000.

W. Va., Charleston — Municipal — City election Aug. 20, to vote on $1,000,000 bonds to construct new city buildings, jail, central, and other fire stations, also pave and build sewers in various streets.

O., Centerville—School—Bd. Educ. Washington Twp. plans to build 2 story, 80 x 130 ft., rein.-con. and brick, concrete foundation. Bonds for $80,000 voted for project. A. Potter, supt.

O., Cincinnati—Lodge—Walnut Hills Masonic Lodge, Peebles Corner, plans to build lodge on Alms Pl. About $60,000.

O., Cleveland—Church—Third Reformed Church, 1531 East 36th St., acquired site on Eddy Rd. and plans to build 1 story, 72 x 100 ft., rein.-con., stone, steel and brick, concrete foundation. About $60,000. Architect not selected.

O., Cleveland — Commercial — Company, c/o Citizens Savings & Trust Co., Citizens Bldg., acquired site on East 30th St. and Euclid Ave. and plans to build 5 story, 270 x 280 ft. rein.-con., steel and brick, concrete foundation. About $300,000. Architect not selected.

O., Cleveland—Commercial—J. Laronge, 214 Williamson Bldg., acquired site on East 55th St. and Euclid Ave., and plans to build 6 story, 80 x 140 ft., rein.-con., steel and brick, concrete foundation. About $150,000. Architect not selected.

O., Cleveland—Commercial—H. O. Oster, 2052 East 105th St., acquired site on 105th St. and Euclid Ave., and plans to build 2 story, 42 x 280 ft. rein.-con., steel and brick. About $100,000. Architect not selected.

O., Cleveland—Commercial—L. A. Skeel, 1040 Forest Cliff Dr., acquired site at 2044 Euclid Ave., and plans to build 5 story, 50 x 189 ft. rein.-con., steel and brick. About $100,000. Architect not selected.

O., Cleveland—Office—Cleveland Ry. Co., Leader-News Bldg., plans to build 1 story, 55 x 80 ft., rein.-con., steel and brick, on Howard Ave. About $50,000. Architect not selected.

O., Cleveland—High School—Bd. Educ., East 6th St. and Rockwell Ave., receives bids in fall for 2 story, 80 x 120 ft., rein.-con., stone, steel and brick addition, concrete foundation, on East 55th St. and Scoville Ave. About $150,000. W. R. McCormack, East 6th St. and Rockwell Ave., archt.

O., Columbus—Hospital—Children's Hospital Assn., Fair Ave. and Franklin Park West, soon receives bids building 4 story, 40 x 200 ft., rein.-con., with 2 wings, 40 x 150 ft. and 25 x 60 ft., rein.-con flooring, concrete foundation, on 17th St. About $300,000. Richards, McCarty & Bulford, 584 East Broad St., Columbus, archts.

O., Dayton—Church and Library—Second Church of Christ Scientist, East 1st St., purchased site on Grand and Belmont Sts., and plans to build 100 x 250 ft., stone and brick. About $150,000. Architect not selected.

O., Dayton — Club House — Hollywood Club, 133 West 2nd St., plans to build 3 story, 60 x 130 ft. About $100,000. Architect not selected.

O., Dayton — Office and Store — A. Schwartz Estate, 5th and Ludlow Sts., plans to build 4 to 6 story, 58 x 100 ft., rein.-con. and brick, concrete foundation, on South Ludlow St. About $200,000. Architect not selected.

O., Dayton—Seminary, etc.—Bonebrake Theological Seminary having plans prepared by F. J. Hughes, archt., Dayton, building 2 to 4 story, rein.-con. and brick seminary, concrete foundation on 19½ acre site on Cornell Ave. Plans include main building, gymnasium and several smaller buildings. About $400,000.

O., Dayton—Store—Reed Furniture Co., East 3rd St., having plans prepared by Pretzinger & Musselman, archts., 1155 Reibold Bldg., for 3 story, 50 x 120 ft. rein.-con. and brick, concrete foundation on 5th St., near Main St. About $100,000.

O., East Cleveland (Cleveland P. O.)—School—Bd. Educ., Williamson Bldg., Cleveland, having plans prepared by W. Hirsch, archt. and engr., 1900 Euclid Ave., for 2 story, 100 x 200 ft., rein-con., steel, stone and brick, on Shaw Ave. About $100,000.

O., South Euclid—School — Bd. Educ. plans to build 1 story, 75 x 150 ft., rein.-con., stone, steel and brick. About $150,000. Architect not selected.

O., Tiffin—Bank—Tiffin Natl. Bank having plans prepared by Walker & Weeks, archts. and engrs., 1900 Euclid Ave., Cleveland, building 2 story, 50 x 100 ft., rein.-con., steel and brick, on Washington St. About $60,000.

Mich., Detroit — Club—Masonic Athletic Assn., c/o G W. Graves, archt., 43 John R St., having plans prepared for 3 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on shore Lake St. Clair. About $100,000. W. F. Jordan, secy.

Mich., Detroit—Commercial and Hotel—H. Chalmers, 275 Iriquois Ave., having plans prepared by B. C. Wetzel & Co., story, 90 x 226 ft., rein.-con., brick and steel, concrete foundation, on Woodward and Parsons Sts. About $175,000.

Mich., Detroit—Hotel—W. J. Brown, 193 Woodward Ave., having preliminary plans prepared by S. E. Remet, archt., 1888 Beaubien St., for 4 story, rein.-con., stone and brick, rein.-con. flooring, concrete foundation, on Cass Ave. and West Columbia St. About $200,000.

Mich., Detroit—Store and Hotel—G. A. Lindke, Monroe and Farmer Sts., had plans prepared by Rogers, Bonnah & Chaffee, archts., 528 Forwell Bldg., for 3 story, 140 x 159 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Woodward Ave. and Peterboro St. About $300,000.

Mich., Wahjamega — Hos[illegible] Dunlap, archt., 709 Hamm[illegible] troit, rejected bids received [illegible] ing 1 story, 43 x 265 ft., f[illegible] and steel, rein.-con. flooring [illegible] dation, for Michigan Colony [illegible] here. Revised plans being [illegible] new bids will be received [illegible] July 10.

Ill., Chicago—Bank—Madis[illegible] & Kedzie State Bank, 3131 West Mad[illegible] St., having plans prepared by J. K[illegible] 179 West Washington St., fo[illegible] story, 100 x 125 ft., brick, concrete f[illegible]dation, on Madison St. and Kedzi Ave. [illegible]bout $325,000.

Ill., Chicago—Bank—Securi[illegible] Bank of Chicago, 741 Milwaukee Ave., [illegible]s to build 3 story, 120 x 135 ft., on Milwaukee and Chicago Aves. About $150,000. Architect not announced.

Ill., Chicago—Community and Synagogue—Bnai Abraham Zion-Jewish congregation, 27 West Illinois St., plans to build community house and synagogue, on Washington Blvd. and Karlov Ave. About $200,000. Architect not selected.

Ill., Chicago—Office—A. S. Alschuler, archt., 28 East Jackson St., soon receives bids building 12 story, 75 x 125 ft., rein.-con. and tile, concrete foundation, on Wabash and Harrison Sts., for W. G. Shedd, c/o architect. About $1,300,000.

Wis., Spooner—Grade School—J. T. Murphy, chn. bd. educ., receives bids about Sept. 1, building 2 story, 85 x 100 ft., brick, rein.-con. flooring, rein.-con. foundation. About $75,000. Architect not selected.

Ia., Winterset—School—Bd. Educ. having plans prepared by W. E. Hulse & Co. archts., Hutchinson, Kan., for 2 story, 90 x 140 ft., rein.-con. and brick, rein.-con. flooring. About $150,000.

Minn., Fergus Falls—Station—Northern Pacific R.R., Railroad Bldg., St. Paul, having plans prepared by O. M. Rognan, archt., 1228 Railroad Bldg., St. Paul, for 2 story, rein.-con., brick and tile, here. About $60,000. H. E. Stevens, ch. engr.

Minn., Jordan — Sanitarium — Mudlavia Sanitarium having preliminary plans prepared by W. D. MacLeith, archt., 1220 Seminary Ave., St. Paul, for 200 room sanitarium. T. Shannon, mgr.

Minn., Minneapolis—School—Bd. Educ. receives bids about Aug. 25, building 8 room, rein.-con. and brick, brick foundation, on Nicollet Ave. and 58th St., to be known as Richfield Consolidated School. About $100,000. Architect not selected.

Minn., St. Paul—Fire Station—City having plans prepared for 2 story, 60 x 80 ft. on University and Van Daley Sts. About $50,00. C. A. Hausler, city archt.

Minn., Spooner—School—Bd. Educ. plans to build school to contain gymnasium, swimming pool, manual training department, assembly hall, locker rooms, etc. About $75,000. Architect not selected.

Minn., Virginia — Church—Presbyterian Society receives bids about Oct. 1 building 1½ story, 62 x 103 ft. About $75,000. Hewitt & Brown, 716 4th Ave., S., Minneapolis, archts.

Kan., Arkansas City—Hotel—Arkansas Hotel Co. plans to build 3 story, brick, rein.-con. flooring, concrete foundation. About $200,000. Shepard, Farrar & Wiser, 1202 R. A. Long Bldg., Kansas City, Mo., archts.

Kan., Atchison—School—Bd. Educ. receives bids about Oct. 1, building 2 story, rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $75,000. W. Saylor & Co., Reliance Bldg., Kansas City, Mo., archts.

Kan., Hiawatha—Auditorium—City having plans prepared and soon receives bids building 2 story, 80 x 130 ft., concrete, steel and brick, rein.-con. flooring, concrete foundation. About $75,000. T. W. Williamson & Co., 418 Central Natl. Bank Bldg., Topeka, archt.

Kan., Holton—Court House—Jackson Co. plans to build 3 story, 85 x 100 ft., stone and brick, rein.-con. flooring, concrete foundation. About $140,000. T. W. Williamson & Co., 418 Central Natl. Bank Bldg., Topeka, archts.

Kan., Lakin—School—Bd. Educ. soon lets contract building 2 story, 54 x 90 ft., concrete and brick, rein.-con. flooring, concrete foundation. About $50,000. H. A. Noble, Reliance Bldg., Kansas City, Mo., engr. Mann & Gerow, Hutchinson, archts.

Buildings (Continued)

Kan., Manhattan — Engineering — State Bd. Management, Capitol, Topeka, having plans prepared by R. E. Gamble, archt., 1415 Fillmore St., Topeka, building 3 story, 22 x 56 ft., and 2 story, 50 x 112 ft., rein.-con. and steel, rein.-con. flooring, concrete foundation. About $190,000.

Kan., Wellington—Auditorium—City rejected bids building 2 story, 90 x 120 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation. About $125,000. C. Boller & Bro., 506 Ridge Bldg., Kansas City, Mo., archts. Noted July 10.

Neb., Aurora—School—Bd. Educ. Consolidated Dist. No. 99, having plans prepared for 2 story, 70 x 122 ft., brick and stone, concrete foundation. About $60,000. R. A. Bradley & Co., Hastings, archts.

Neb., Columbus—Court House—Platte Co. election Sept. 9, to vote on $150,000 bonds to build 4 story, 70 x 106 ft., brick. C. W. Wurdeman, Columbus, archt.

Neb., Falls City—Court House—Richardson Co. voted $200,000 bonds to build 3 story courthouse. W. E. Hulse & Co., Hutchinson, Kan., archts. Noted June 19.

Neb., Grand Island—High School—Bd. Educ. plans to build 3 story, 86 x 136 ft. brick Junior High School. About $150,000. O. R. Kirschke and F. Crocker, Grand Island, archts.

Neb., Grand Island—High School—Bd. Educ. plans to build 3 story, 150 x 200 ft., brick. About $300,000. Kirschke & Crocker, Grand Island, archts.

Neb., Grand Island—Hospital—Sisters of St. Francis having plans prepared for 2 story, rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $55,000. R. A. Bradley & Co., Hastings, archt.

Neb., Lincoln—School—Bd. Educ. having preliminary plans prepared by Fiske & Meginnis, archts., 533 Bankers Life Bldg., for 2 story, brick, rein.-con. flooring, concrete foundation, on 22nd and Lake Sts. About $450,000.

Neb., Mead—School—Bd. Educ. having plans prepared and soon receives bids building 2 story, 80 x 130 ft., brick, rein.-con. flooring, concrete foundation. About $130,000. E. Davis, 1809 South St., Lincoln, archt.

Neb., North Platte—Court House—Lincoln Co. voted $200,000 bonds to build new court house here.

Neb., Ord—Court House—Comrs. Valley Co. voted $100,000 bonds to build 3 story court house here. Architect not selected.

N. D., Fargo—Refectory—State Bldg. Comn., Bismarck, soon receives bids building 2 story, 59 x 160 ft. About $85,000. W. F. Kurke, Equity Bldg., archt.

Mont., Helena—Laboratory—State Bd. Examiners received no bids building laboratory for Bd. Health. About $50,000. Link & Haire, Power Bldg., archts. Work will be readvertised. Noted July 10.

Mo., St. Joseph — Infirmary — Buchanan Co. soon receives bids building 2 story, 42 x 230 ft., 40 x 133 ft., and 55 x 86 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation. About $235,000. R. Meier and R. Arnold, 2526 Jule St., archts.

Mo., St. Joseph—Sunday School—First Presbyterian congregation having plans prepared by Eckel & Aldrich, archts., Corby Bldg., for 3 story, 50 x 60 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation. About $60,000.

Tex., San Antonio — Auditorium — City voted $500,000 bonds to build auditorium. H. Helland, city engr. Noted July 10.

Tex., San Antonio—Market—City voted $200,000 bonds to build market. N. Helland, city engr. Noted July 10.

Okla., Guthrie—Consistory—Scottish Rite Consistory plans to construct consistory building here. About $500,000. Hawk & Parr, Oklahoma, archts.

Okla., Norman — Dormitory—Bd. Pub. Affairs, Oklahoma, plans to build dormitory here. About $100,000. C. A. Popkins, 417 Berryhill Bldg., Sapulpa, archt.

Okla., Oklahoma—Office—Oklahoma Gas & Electric Co., Insurance Bldg., soon receives bids building 3 story, 50 x 140 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation, on 1st St., near Bway. About $100,000. Parr & Hawk, 501 Security Bldg., archts.

N. M., Santa Fe—Home—Knights Columbus plan to build 2 or 4 story, 40 x 150 ft. concrete and brick, brick foundation, on Palace Ave. Cost to exceed $50,000. Architect not selected.

Idaho, Glenns Falls—Hotel—D. M. Gorby having plans prepared by Wayland & Fennell, archts., Idaho Bldg., Boise, building 2 story, 75 x 140 ft., brick, concrete foundation. About $50,000.

Nev., Reno — University — Bd. Regents, University of Nevada, having plans prepared by F. J. LeLongchamps, archt., 332 Gazette Bldg., for 2 story, 58 x 160 ft., brick and timber, concrete foundation, on campus.

Wash., Benton City — School — Benton City School Dist. plans to build 2 story, concrete or brick. City voted $52,000 bonds for project. Architect not selected.

Wash., Chehalis — Business — J. Denhof plans to build 2 or 3 story, 112 x 126 ft., brick, concrete foundation. About $50,000. Architect not selected.

Wash., Pasco—Hospital—Catholic Sisters plan to build 5 story, brick, rein.-con. flooring. About $80,000. Architects not selected.

Wash., Spokane—Auditorium—City plans to build 1 story, 100 x 155 ft., rein.-con. and brick, concrete foundation. About $160,000. F. W. Westcott, Spokane, archt.

Wash., Spokane—Hotel—T. C. Powers, Helena, Mont., plans to build 7 story, 71 x 135 ft., concrete or brick, on Post St. and Trent Ave., here. About $200,000. Architect not selected.

Wash., Spokane — Temple — Spokane Union Labor Temple Assn. recently incorporated, plans to build 3 or 4 story, brick or concrete. Cost, including site, $150,000. Address W. H. Pazen, East 108 Empire St. Architect not selected. Will be member of association.

Ore., Bend—Hospital—Sisters of St. Joseph having preliminary plans prepared for 3 or 4 story, brick, concrete foundation. Cost of 1st unit, $65,000.

Ore., Salem—Hall—Willamette University having plans prepared by F. A. Legg, archt., 263 South High St., for 2 or 3 story, brick or tile hall, on campus, to include gymnasium, parlors, shower baths, etc. for women. About $50,000.

Ore., Seaside — Hotel — Seaside Hotel Corp. having plans prepared by F. O. Johnson, archt., 693 Marshall St., Portland, for brick or concrete hotel, 300 ft. long, concrete foundation, on Pacific Beach, connecting with beach by concrete bulkhead and esplanade. About $50,000.

Ore., Seaside—Hotel—Seaside Hotel Corp. having plans prepared by Johnson & Parker, archts., United States Bank Bldg., Portland, for 4 story, 70 x 300 ft., brick and concrete, on beach. About $300,000.

Cal., Berkeley—Schools—City plans to build junior high school, cost, $250,000; also high school, $800,000. W. C. Hays, 1st Natl. Bank Bldg., San Francisco, archt.

Cal., Glendale—Schools—School Trustees having plans prepared by O. P. Dennis, archt., Hawthorne Ave., Los Angeles, for school on Bway., cost, $75,000 and 3 small kindergarten buildings on other sites, brick, concrete or hollow tile. Bonds for $100,000 voted for project. Noted July 17.

Cal., Hemet—School—Trustees Hemet Union High School Dist. having plans prepared by G. S. Wilson, archt., Virginia Bldg., Riverside, for 1 story, 125 x 175 ft., rein.-con., concrete foundation. About $70,000. Noted June 5.

Cal., Huntington Beach—Bath House, Hall, etc.,—See "Miscellaneous."

Cal., Los Angeles—Office and Store—L. Phillips et al, c/o Pacific Mutual Life Insurance Co., 6th and Olive Sts., had preliminary plans prepared by W. J. Dodd, archt., Brack-Shops Bldg., for 12 story, 100 x 120 ft., rein.-con., brick and terra cotta. About $1,500,000. W. Richards, Brack-Shops Bldg., engr.

Cal., Los Angeles—Store—Bullock's Dry Goods Store, 7th and Bway., having plans prepared by J. Parkinson, archt., 420 Title Insurance Bldg., for 7 story, 150 x 150 ft., brick, steel and frame addition, on 7th and Hill Sts., Noted July 17.

Cal., Napa — Theatre — Blumenfeld & Knox, Empire Theatre, having plans prepared by Reid Bros., archts., California-Pacific Bldg., San Francisco, for 2 story, 75 x 120 ft., concrete and timber, concrete foundation. About $50,000.

Cal., Salinas — High School — School Trustees having plans prepared by R. Wyckoff, archt., Salinas, for group of rein.-con., brick or hollow tile school buildings. About $250,000. Noted July 31.

Cal., San Bernardino—Hotel—Chamber of Commerce appointed committee to promote erection of hotel. About $300,000. J. D. Gentry, chn.

Cal., San Francisco—Bank—F. H. Meyer, archt., Bankers Investment Bldg., soon receives bids building 6 story, steel and granite addition, on Market St. and Grant Ave., for Union Trust Co., c/o architect. About $200,000. Noted May 22.

Cal., San Francisco—Office and Loft—Wellman Estate Co., c/o J. Krafft & Sons, archts., Phelan Bldg., had revised plans prepared for 6 story, 40 x 60 ft., brick and steel, on Jackson St. Architect will receive bids soon. Noted May 22.

Cal., Santa Maria—Club—Business Men's Club having preliminary plans prepared by F. R. Spangler, archt., Jones Bldg., for brick and frame club. About $65,000.

Ont., Ottawa—Collegiate Institute Ottawa Collegiate Bd., Elgen St., will ask Corporation of Ottawa for authority to purchase land on 1st Ave. and build collegiate institute. About $250,000.

Ont., Toronto—Hospital, Home—Orange Grand Lodge soon receives bids building hospital and home. About $300,000. W. Fitzgerald, 30 Grange Ave., secy.

BIDS DESIRED

Conn., Hartford—Office—See "Industrial works."

N. Y., New York—Theatre—Until Aug. 9, by G. M. Pollard, archt., 347 5th Ave., building 1 story, 83 x 176 ft. brick and steel, brick foundation, at 4023 Bway., for A. Lewisohn, 61 Bway. About $120,000. Noted July 3.

N. Y., Pelham—School—Until Aug. 11, by Tooker & Marsh, archts. and engrs., 101 Park Ave., New York City, building 2 story, 168 x 171 ft., brick and steel, stone flooring, for Bd. Educ. About $115,000. Former bids rejected. Noted July 24.

N. J., Collinswood—Rectory—St. John's congregation receiving bids for 3 story, 30 x 70 ft., stone. F. F. Durang, 1220 Locust St., Phila., archt. Former bids rejected. Noted July 24.

N. J., Elizabeth—Hospital—Until Aug. 25, by Crow, Lewis & Wickenhoefer, archts., 200 5th Ave., New York City, building 6 story, 33 x 75 ft., brick, steel and stone addition, brick foundation, on East Jersey St., for Elizabeth Genl. Hospital, here. About $500,000. Noted Feb. 20.

Pa., Hatboro—School—Until Aug. 11, by Heacock & Hohansen, archts., 1218 Chestnut St., Phila., building 2 story, 35 x 58 ft. stone addition here for Bd. Educ.

Pa., Phila.—Bank—Until Aug. 12, by Golove & Lewis, archts. and engrs., Real Estate Trust Bldg., building 2 story, 78 x 116 ft., brick and terra cotta, for Pub. Bank, 7th and Morris Sts. Cost to exceed $50,000.

Pa., Phila.—Dormitories—I. O. O. F. c/o R. Davis, Mt. Carmel, receiving bids building two 3 story, 43 x 58 ft., brick dormitories, here. About $75,000. W. H. Lee, 32 South 17th St., archt.

Pa., Spring City—Infirmary—Until Aug. 19, by East Pennsylvania State Institute for Feeble Minded, building 2 story, 28 x 170 ft., with two 40 x 80 ft. wings, brick and stone. P. H. Johnson, 1713 Sansom St., archt. and engr.

Fla., Miami—Hotel—Until Aug. 15, by Price & McLanahan, archts., 908 Bellevue Court, Phila., Pa., building Hotel Flamingo, 17 story, 110 x 438 ft., steel, stucco and concrete, for C. G. Fisher, 434 N. Capitol Ave., and J. J. Allison, Indianapolis. Noted June 19.

O., Bellevue — Commercial — Walker & Weeks, archts. and engrs., 1900 Euclid Ave., Cleveland, receiving bids building 100 x 150 ft., rein.-con., stone, steel and brick, on Market St., for Wright Banking Co. About $75,000.

O., Stoutsville—School—Until Aug. 27, by A. Barr., clk. bd. educ., and Glass & Austin, archts., 58 East State St., building 2 story, 60 x 102 ft., rein.-con. About $70,000.

Mich., Detroit—Office—A. Kahn, archt., Marquette Bldg., receiving bids for 2 story, 60 x 145 ft., brick and steel addition, for Detroit Evening News Co., Lafayette Blvd.

Buildings (Continued)

Mich., Oakwood (Oxford P. O.)—High School—Until Aug. 15, by Van Leyen, Schilling & Keough, archts., 1115 Union Trust Bldg., Detroit, for 2 story, 85 x 200 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, for Bd. Educ. About $230,000. Noted July 31.

Ill., Chicago—Hotel—Until Aug. 25, by R. C. Harris, archt., 190 North State St., building 10 story, 130 x 172 ft. rein.-con., brick and terra cotta, rein.-con. flooring, concrete foundation, on Sheridan Rd. and Chase Ave., for Argonne Hotel Co., c/o architect. About $950,000. Noted July 24.

Ill., Rockford—Church—S. M. Seator, archt., 35 North Dearborn St., Chicago, receiving bids for 1 and 2 story, 60 x 115 ft., brick, concrete foundation, on Court and Palm Sts., for First Baptist congregation. Church and Mulberry Sts. About $50,000.

Ill., Springfield—Memorial—Until Aug. 21, by Div. of Architecture, Capitol Bldg., for 4 story, 190 x 277 ft., rein.-con. centennial memorial, on ground adjacent to State Capitol Bldg. About $1,000,000. E. Martin, 104 South Michigan Ave., Chicago, superv. archt. R. E. Schmidt and Garden & Garden, 104 South Michigan Ave., Chicago, assoc. archts. Noted July 31.

Minn., Austin—High School—Until Aug. 20 (change of date), by Bd. Educ., building 3 story, 180 x 220 ft., rein.-con., brick and steel, rein.-con flooring, concrete foundation. About $450,000. G. L. Lockhart, Endicott Bldg., St. Paul, archt. F. Tustison, 355 Auditorium Bldg., Minneapolis, engr. Noted June 26.

Minn., Duluth—Office—See "Miscellaneous."

Minn., Moose Lake—Grade School—Bd. Educ. receiving bids for 2 story, 53 x 62 ft., rein.-con. and brick addition. About $50,000. F. A. Schweiger, Moose Lake, archt. Noted July 17.

Kan., Eldorado—Memorial — Until Aug. 15, by R. E. Foley, city clk., building 2 story, 75 x 135 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $100,000. G. P. Washburn & Sons, Ottawa, archts.

Kan., Ottawa—Auditorium—Until Aug. 18, by E. M. Cusick, city clk., building 2 story, 75 x 135 ft., rein.con., steel and brick, rein.-con. flooring, concrete foundation. About $90,000. G. P. Washburn & Sons, Ottawa, archts. Noted Mar. 27.

Kan., Pleasantown—School—Until Aug. 15, by Bd. Educ., building 2 story, 72 x 84 ft., concrete, steel and brick, concrete foundation. About $53,000. H. R. Primmer, Nevada, Mo., archt. Noted July 17.

Neb., Bayard—School—Until Aug. 25, by Bd. Educ., building 2 story, rein.-con. steel and brick, rein.-con flooring, concrete foundation. About $100,000. R. A. Bradley, Hastings, archt.

Neb., Grand Island—School—Until Aug. 11, by Bd. Educ., building 2 story, 53 x 86 ft., rein-con., steel and brick, rein.-con. flooring, concrete foundation. About $55,-000. Kirschke & Crocker, Grand Island, archts.

Neb., Valpariso—School—Until Aug. 21, by Bd. Educ., building 1 story, 85 x 155 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $75,000. E. Davis, 1809 South St., Lincoln, archt.

N. D., Jamestown—Hospital—Until Aug. 11, by Bd. Administration, Bismarck, building 4 story, 70 x 180 ft. concrete and brick, at State Hospital for Insane, here. About $150,000. W. F. Kurke, Fargo, archt. Noted May 8.

Utah, Salt Lake City — Hospital — Until Aug. 13, by Comrs. Salt Lake Co., building rein.-con. hospital on South State St. About $200,000. Pope & Burton, Newhouse Bldg., engrs. and archts. Noted July 10.

Ore., Eugene—Gymnasium, etc. — Until Aug. 12, by Bd. Regents, University of Oregon, building 3 story, 86 x 276 ft. gymnasium and club building for women, brick foundation, on campus. About $200,000. P. Campbell, pres. Lawrence & Holford, Chamber of Commerce Bldg., Portland, archts. Noted June 26.

Ore., Pilot Rock—High School—Until Aug. 16, by C. W. Paulus, clk. Union High School Dist. No. 2, building 2 story, 42 x 64 ft., concrete or brick, concrete foundation. Cost to exceed $50,000. C. E. Troutman and C. A. Haynes, Aberdeen, Wash., archts.

N. S., New Aberdeen — Church—Until Aug. 30, by M. R. Chappell, archt., Brookland St., building 3 story, stone and steel, concrete foundation, on Main St., for Methodist congregation. About $50,000.

Ont., Hamilton—School—Until Aug. 20, by F. W. Warren, archt., Bank of Hamilton Bldg., building 3 story, rein.-con. and brick, concrete foundation, on King St., for Bd. Educ., c/o R. H. Foster, 18 Cottage Ave. About $80,000. Noted June 12.

Man., Arden—School—Until Aug. 15, by M. E. Broughton, archt., Landsdowne, building 3 story, 54 x 66 ft., brick and steel, concrete foundation, here, for Bd. Educ. About $60,000.

Sask., Weyburn—School—Until Aug. 26, by E. W. Clarke, secy. bd. educ., building 3 story, 50 x 50 ft., concrete and brick, concrete foundation, on Queen St., for School Bd. Trustees. About $65,000. Storey & Van Egmond, 1013 McCallum Hill Bldg., Regina, archts.

Alta., Edmonton—Hospital—Until Aug. 15, by R. P. Blakey, archt., Canadian Provincial Bldg., building fireproof addition to Civic Hospital, concrete foundation. About $150,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Chicopee**—Business—P. P. Starzyk, 32 Center St., let contract to B. Grabowski, 1600 Dwight St., Holyoke, converting Old Wells Opera House, on Exchange and Center Sts., into business building. About $50,000. Noted July 31.

★**Mass., Pittsfield**—Church—South Congregational Church, South St., let contract remodeling church, to include interior and exterior alterations, new ceiling, etc., brick and steel, to E. F. Roscoe, 100 Livingstone Ave. About $50,000.

★**Conn., Bridgeport**—Church and Rectory—St. Lukes Episcopal Society, 1161 Stratford Ave., let contract building 2 story, 42 x 96 ft. brick church, and 2 story, 30 x 40 ft. timber rectory, concrete foundation, on Strafford Ave., to Casey & Hurley, 120 Pequonnock St. About $50,000.

★**Conn., Bristol**—Hotel—New Departure Mfg. Co., 269 North Main St., let contract building 6 story, 75 x 157 ft. brick and concrete, concrete flooring, concrete foundation, on North Main St., to Ellison Constr. Co., 98 Wellington Ave., Hartford. About $200,000. Noted June 19.

★**Conn., Hartford**—Business—H. S. Bond, 320 Asylum St., let contract altering and building 1 story addition, concrete flooring, concrete foundation, to J. C. Smith, 143 Adelaide St. About $50,000.

★**Conn., Middletown** — School — City let contract altering and repairing school, brick and timber, on College and Hamlin Sts., to D. O'Brien & Sons, Inc., 118 Asylum St., Hartford. About $50,000.

★**Conn., New Haven** — Business — Lenox Realty Co., c/o C. F. Townsend, archt., 185 Church St., let contract altering and building 2 story, brick and concrete addition, on Court and Orange Sts., to C. E. Auger Co., 549 Elm St. About $50,000.

★**Conn., Oakville**—School—Town let contract building 2 story, brick, concrete and steel, to J. F. Buttner, 227 Willow St., Waterbury. About $50,000. Noted July 3, under "Watertown."

★**Conn., Plainville** — Stores, etc. — M. J. Unkelbach, archt., 162 Main St., New Britain, let contract to A. Berti, 138 Oak St., New Britain, for 3 story, 60 x 124 ft., brick business building on Main St., to include stores, offices, hall and bowling alleys, for Neri Bros., 8 East Main St. About $100,-000. Noted Feb. 20.

★**N. Y., Astoria**—Theatre—T. W. Lamb, archt., 644 8th Ave., New York City, let contract to H. Shapiro, 52 Vanderbilt Ave., New York City, building 2 story, brick and steel, brick foundation, on Grand and Steinway Aves., here, for Glynne & Ward, Alhambra Theatre, Knickerbocker Ave. and Halsey St., Brooklyn. About $400,000. Noted July 31.

★**N. Y., Brooklyn**—Synagogue—Congregation Sons of Jacob, 293 Vermont St., will build 2 story, 50 x 100 ft., brick and stone, brick foundation, on Pennsylvania Ave. About $70,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Synagogue—M. Whinston, archt., 63 Park Row, New York City, let contract to S. Sherusky, 493 Snedeker Ave., for 2 story, 50 x 92 ft., brick, stone and steel, brick foundation, on Vermont Ave., near Sutter Ave., for Congregation Sechoi Thoras Moses, 369 Vermont Ave. About $60,000. Noted June 26.

★**N. Y., Brooklyn**—Theatre—I. [illegible], 303 Oakland Ave., will build 1 [illegible] 200 ft. brick and steel, on Manh[illegible] Norman Aves. About $65,000. [illegible] be done by day labor. Noted M[illegible]

★**N. Y., Brooklyn**—Theatre—W[illegible] ty Co., 520 St. Marks Ave., wi[illegible] story, 145 x 185 ft., brick and s[illegible] tion, brick foundation, on St. John[illegible] Kingston Ave. About $230,000. [illegible] be done by day labor.

★**N. Y., New York**—Office—B[illegible] St. Corp., 206 Bway., let contra[illegible] ing 6 and 7 story, 53 x 83 ft., [illegible] steel, brick foundation, at 19-23 B[illegible] through to 2-4 Stone St., to F[illegible] Constr. Co., 531 7th Ave. About $[illegible]

★**N. Y. New York**—Office and Lof[illegible]—Severence & Van Allens archts. and engrs., 4 West 37th St. let contract to C. L. Frazer, 103 Park Ave., for 9 story, 28 x 83 ft. brick and steel, brick foundatin, at 37 Water St., for Baker, Carver & Morrell, 39 Water St. Noted June 5.

★**N. Y., New York**—Synagogue—Institution of Synagogues, 37 West 116th St., let contract building brick, steel and stone, to G. R. Davis, 30 East 42nd St. About $250,000.

★**N. Y., New York**—Theatre—C. Hensle, 2879 10th Ave., will build 2 story, 100 x 315 ft., brick and steel, brick foundation, on Dykman St. About $300,000. Work will be done by day labor.

N. Y., Thiells—Cottage, etc.—F. A. Vanderlip, pres. bd. mgrs., Letchworth Village, 7 Wall St., New York City, received bids July 17, building eight 1 story, 34 x 150 ft. stel cottages, with 36 x 46 ft. wings, concrete foundation; 1 story, 40 x 80 ft. steel industrial building, concrete foundation; 1 story, 49 x 145 ft. service building, with 64 x 100 ft. wing, concrete foundation; underground tunnel and conduit, hot water and steam connections, distributing equipment, underground sewer, water connections and electric service, (general contract), from P. Keler Bldg. Co., 425 Orange St., Albany, $427,888; M. Kantrowitz, 203 Market St., Albany, $520,000; heating, from J. C. Williams, Inc., 233 Bway., $163,741. Adams, Britz & Co., Inc., 1761 Park Ave., $167,000; Lord Constr. Co., 105 West 40th St., $168,500; sanitary work, from C. Nally, 710 Columbus Ave., $95,675, Kenny Moran Co., Inc., 33 Old Bway., $182,899, all contractors of New York City; electric work, from W. H. Straut Co., Haverstraw, $14,-100, Lord Electric Co., 105 West 40th St., New York City, $14,981, G. E. Eng. Co., Inc., 417 Canal St., New York City, $15,920. Noted July 3.

★**N. Y., Utica**—Hospital—Trustees of Masonic Home let contract building 4 story, 41 x 217 ft., Soldiers and Sailors Memorial Hospital, with two 33 x 91 ft. wings, brick, on Bleecker St. and Prospect Park, to J. F. Hughes Constr. Co., 211 Post St. About $300,000.

★**N. J., Absecon**—Club—Seaview Golf Club let contract building 3 story, 10 x 35 ft., 33 x 45 ft. and 45 x 92 ft., concrete, brick and hollow tile, to J. M. Yardley, 1716 Sansom St., Phila. About $100,000.

★**Pa., Bethlehem** — High School — Bd. Educ. let contract building 4 story, 200 x 300 ft., concrete, steel and brick, to Cramp & Co., Denchla Bldg., Phila. About $1,-000,000.

★**Pa., Chester** — Club House — Chester Club let contract building 4 story, 65 x 110 ft., to Chester Constr. & Contg. Co., 8th and Parker Sts. About $131,000. Noted July 31.

★**Pa., Harrisburg**—Church—Grace Methodist Episcopal congregation let contract building brick, steel and stone, to Kelly & Kelly, 12th St., Long Island City. About $55,000.

★**Pa., Harrisburg**—Club House—Harrisburg Country Club let contract building 2 story, 100 x 100 ft. brick and steel, brick foundation, to Kelly & Kelly, 12th St., Long Island City. About $80,000.

★**Pa., Kittanning**—School—School Bd. let contract building 3 story rein.-con. and brick, rein.-con. flooring, concrete foundation, to H. Shaffer, Kittanning. About $135,000.

★**Pa., Phila.**—Bank—Industrial Trust Co., Front and Norris Sts., let contract altering 3 story, 32 x 80 ft., fireproof, to W. Steele & Sons Co., 16th and Arch Sts. About $150,000.

★**Pa., Phila.**—Sunday School—Bethany Temple Presbyterian congregation, 54th and Spruce Sts., let contract building 3 story, 84 x 120 ft., concrete, brick and stone, to A. R. Raff, Co., Richmond and Norris Sts. About $100,000. Noted July 3.

Buildings (Continued)

★Pa., **Phila.**—Y. W. C. A., 5020 Germantown Ave., let contract building 1 story, 32 x 60 ft. brick addition, on Germantown and Chelton Aves., to Doyle & Co., 1519 Sansom St. About $50,000.

★Pa., **Pittsburgh** — Retreat House—St. Paul's Monastery, Monastery St., let contract building 2 story, 75 x 100 ft., brick walls, to Duquesne Constr. Co., Bessemer Bldg. About $53,000.

★Pa., **Reading**—Theatre—Carr & Schad, 9th and Spring Sts., let contract building 1 story, 113 x 200 ft. concrete, steel and brick, to C. H. Schlagel, 23rd and Park Sts. About $80,000. Noted July 10.

★Pa., **Swarthmore**—Engineering—Swarthmore College let contract building 3 story, 52 x 124 ft. concrete and stone, to B. White, 1713 Sansom St., Phila. About $75,000.

★Va., **Fredericksburg** — School — City Council let contract building 3 story, 78 x 125 ft. brick, concrete foundation, on Potters Field, to E. G. Heflin, Fredericksburg, $85,267. Noted July 17.

★N. C., **Highpoint**—Exposition—Southern Furniture Exposition let contract building 10 story, 100 x 208 ft., rein.-con. or steel, to W. P. Rose, Goldsboro. About $450,000. Noted July 31.

★O., **Cleveland**—Theatre—D. R. Hannan, 511 Leader-News Bldg., let contract building 11 story, 100 x 192 ft., rein.-con., steel, limestone and brick, on East 14th St. and Prospect Ave., to J. Gill & Son, 1301 Citizens Bldg. About $750,000. Noted July 24.

★O., **Columbus**—Home — M. D. Fernknopp, archt., Columbus, let contract to Franklin Constr. Co., Columbus, building 2 story, 20 x 30 ft. and 42 x 100 ft., brick and stucco, on Rect and 11th Sts., for J. Schenthal, Southern Hotel Bldg. About $55,000.

★O., **Columbus**—Nurses' Home—Mt. Carmel Hospital, West State St., let contract building 1 story, 40 x 125 ft., with 40 x 75 ft. wing, brick and concrete, to D. W. McGrath, New 1st Natl. Bank Bldg. About $225,000. Cost plus percentage basis.

★O., **Dayton** — Bank — Merchants Natl. Bank, 3rd and Jefferson Aves., let contract remodeling 4 story, concrete, steel and brick to Dickey-Wood Bldg. Co., East 3rd St. About $75,000.

★O., **Dayton** — Business — Metropolitan Clothing Store, 4th and Ludlow Sts., let contract building 3 story, 78 x 105 ft., steel and brick addition, to H. R. Blagg Co., 1229 East 3rd St. About $60,000. Noted June 26.

★O., **Lorain**—Hotel—T. C. Metzer, Bway Ave., let contract building 5 story, 70 x 140 ft., rein.-con., terra cotta, steel and brick, to Crowell Lundoff Little Co., Meriam Bldg., Cleveland. About $300,000.

O., **Mechanicsburg**—School—R. C. Gotwald, archt., Gotwald Bldg., Springfield, received bids building 3 story, 60 x 120 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, for Bd. Educ., from L. B. Foltz, Columbus, $74,000; G. Hicks, South Charleston, $79,000; A. M. Fry, Piqua, $82,000. Noted July 3.

★Ind., **Indianapolis** — Lodge — West Indianapolis Masonic Temple Assn. let contract building 2 story, 94 x 100 ft., brick, at 1522 West Morris St., to Walter Brooks Co., Indianapolis.

★Ind., **Rushville** — Infirmary — Comrs. Rush Co. let contract building 2 story, 74 x 296 ft., brick and concrete, concrete foundation here, to L. Colvin, West Lafayette, $74,296.

★Mich., **Detroit**—Hospital—Pub. Welfare Comn., Macomb and St. Antoine Sts., let contract building 4 story, 87 x 218 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to G. A. Fuller Co., 540 Penobscot Bldg., $462,834. Noted July 10.

★Mich., **Detroit**—Schools—Bd. Educ. let contracts building (a) addition to Moore School on Alger and Cameron Ave., (b) addition to A. K. L. Holmes School on Georgia and Crane Aves., (c) addition to Dwyer School on Hawthorn and Caniff Aves., (1) masonry, (2) carpentry, (3) heating and ventilating, to M. A. Mahoney, Penobscot Bldg., (a1) $96,000; Ernst & Thiede, 287 Berlin St., (a1) $27,629, (a2) $27,212, (c2) $28,785; J. W. Partlan, 51 Park Pl., (a3) $56,661, (c3) $55,295; A. J. Smith Constr. Co., Campau Bldg., (b1) $87,879; Ernest Bros. Co., 35 Bagg St., (b3) $57,043; Corrick Bros., 508 Owen Bldg., (c1) $110,923. Noted July 10 and 24.

★Mich., **Flint**—Bank and Office—Genesee Natl. Savings Bank let contract building 10 story, 44 x 120 ft., steel, stone and brick, brick foundation, on Saginaw and Kears Sts., to Hoggson Bros., 485 5th Ave., New York City. About $500,000. Noted July 17.

★Ia., **Vinton**—School—Bd. Educ., c/o W. E. Bickel, secy., let contract building 2 story, 88 x 110 ft., rein.-con., steel and brick, rein.-con. flooring, brick and concrete foundation, to M. N. Moenn, Mason City. About $113,000.

★Minn., **Gilbert** — Schools — Independent School Dist. No. 18, St. Louis Co., let contract building 1 and 2 story, 50 x 71 ft. and 44 x 57 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to J. Doulin, 1213 16th St., Superior, Wis., $51,588.

★Minn., **Hibbing** — Mercantile — Oliver Mining Co., Wolvin Bldg., Duluth, let contract building 2 story, 106 x 125 ft., rein.-con., brick and steel, rein.-con flooring, concrete foundation, on 1st Ave., here, to W. H. Hoy Co., 700 Metropolitan Bank Bldg., St. Paul, $130,000. Noted May 22.

★Mo., **St. Louis**—School—City let contract building 2 story, steel and brick, concrete foundation, on Manchester and Magnolia Sts., to E. C. Gerhard Bldg. Co., Post-Dispatch Bldg. About $209,000.

★Okla., **Idabell**—Court House and Jail—Comrs. McCurtin Co. let contract building 3 story, 80 x 96 ft., brick, rein.-con. flooring, concrete foundation, to Manhattan Constr. Co., 3rd and Fon du Lac Sts., Muskogee, $118,936. Noted June 12.

★Colo., **Englewood**—High School—Dir. Dist. No. 1, Arapahoe Co., let contract building 2 story, brick and steel, rein.-con. foundation, to A. Olson, 655 Vine St., Denver, $77,114. Noted June 12.

★Ariz., **Tucson**—Dormitory—Bd. Regents University of Arizona let contract building 2 story, concrete, on campus, to A. Campbell, Tucson, $67,829.

Wash., Spokane — School — Fern Hill School Dist. received bids for remodeling and building 2 story, 6 room, brick and concrete addition, concrete foundation, to include gymnasium and auditorium (general contract), from S. C. Erickson, Spokane, $126,570; heating and ventilating, from C. A. Richardson, Spokane, $29,397.

★Cal., **Bishop**—Hotel—G. Watterman let contract building 2 story, rein.-con., rein.-con. flooring, concrete foundation, to Edwards & Wildey Co., 515 Black Bldg., Los Angeles. About $60,000.

★Cal., **Redlands**—College—University of Redlands let contract building 2 story, 60 x 120 ft. science hall and 2 story, 40 x 136 ft. men's dormitory, rein.-con. and hollow tile, rein.-con. flooring, concrete foundation, to W. C. Crowell, 440 Chamber of Commerce Bldg., Pasadena. About $150,000.

★Cal., **San Marine**—Library—H. E. Huntington let contract building 2 and 1 story, 160 x 200 ft. library with three 50 x 100 ft. wings, rein.-con., rein.-con. flooring, concrete foundation, to W. C. Crowell, 440 Chamber of Commerce Bldg., Pasadena. About $175,000.

★Que., **Montreal**—Hotel—Queen's Hotel, Ltd., 1 Windsor St., let contract building 70 room brick and stone addition, to T. Wand, 1667 Clarke St. About $60,000.

★Que., **Montreal**—Synagogue—B. Goldenberg, archt., 83 Craig St., W., let contract to Sauvegeau & Co., 108 Stadacona St., building 50 x 90 ft. brick, stone and steel, stone foundation, on Esplanade St., for Beth B'Nae Jacobi congregation. About $100,000. Noted May 8.

★B. C., **Victoria**—Church—First Church Christian Science let contract building 1 story, stone and brick, concrete foundation, to P. McKechnie, 2358 Cadboro Bay Rd. About $50,000.

Federal Government Work

PROPOSED WORK

Va., Norfolk — Pattern Shop — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build, here. About $500,000.

Ala., Andalusia — Post Office — Treas. Dept., Wash., D. C., rejected bids received July 22, building, here. J. A. Wetmore, superv. archt. Noted July 31.

Ia., Vinton — Post Office — Treas. Dept., Wash., D. C., rejected bids received July 10, building, here. J. A. Wetmore, superv. archt. Noted July 17.

Idaho, Grangeville—Road Work—Bureau Pub. Rds., U. S. Dept. of Agriculture, appropriated $135,000 to build and hardsurface 11 mi. Meadow Creek-Rocky Point Rd. Total cost, $185,000.

Wash., Yakima—Irrigation—U. S. Recl. Serv. appropriated $25,000 for survey of arid lands in Walla Walla and Franklin Counties, also $353,000 for Yakima Irrigation Project, $325,000 for Okanogan Project, and $11,000 for maintenance of reservoirs furnishing water to Yakima Indian Reservation.

BIDS DESIRED

N. Y., New York—Dredging—Until Sept. 2, by U. S. Engr. Office, 39 Whitehall St., dredging in Shrewbury River, N. J.; advertised in this issue.

N. Y., Stapleton—Water Supply Connections—Until Aug. 19, by Treas. Dept., Wash., D. C., for water supply connections at Marine Hospital, here. J. A. Wetmore, superv. archt.

Md., Aberdeen—Gunnery Emplacements, etc.—Until Aug. 12, by Constr. Officer, Aberdeen Proving Ground, building 4 concrete gun emplacements, 1 sand butt, 3 armor plate butts, 3000 ft. railroad, 6000 sq.yd. concrete roads, traverses, pavements, drains, etc., advertised in this issue.

D. C., Wash.—Pipe, Valves, etc.—Until Aug. 13, by Washington Suburban Sanitary Comn., 611 F St., N. W., furnishing contracts as follows: Contr. 2W, 50,000 ft. 6 in., 45,000 ft. 8 in. and 2200 ft. 12 in. c.i. water pipe and 65 tons special castings; Contr. 3W, one hundred seventy-five 6 in., seventy 8 in. and five 12 in. gate valves and 250 valve boxes; Contr. 4W, 10,000 ft. ¾ in., 5000 ft. 1 in. 1000 ft. 1¼ in., 500 ft. 1½ in. and 500 ft. 2 in. galvanized genuine w.i. pipe; Contr. No. 5W, seven hundred fifty ¾ in., five hundred 1 in., fifty 1¼ in. twenty-five 1½ in. and twenty-five 2 in. corporation cocks and goose necks; advertised in this issue.

D. C., Wash.—Repairing Wharf—Until Aug. 19, by Dist. Comrs., Dist. Bldg., repairing sand wharf, on Water St., between 9th and 10th Sts., S. W.; advertised in this issue.

Tenn., Memphis—Towboat—Until Sept. 2, by Mississippi River Comn., 1st and 2nd Dists., Custom House, furnishing 1 stern wheel steel towboat; advertised in this issue.

Ill., Chicago—Breakwater—Until Aug. 29, by U. S. Engr. Office, 508 Federal Bldg., constructing rubble mound breakwater at Indiana Harbor, Ind.; advertised in this issue.

H. T., Pearl Harbor—Torpedo Racks—Spec. 4008—Until Aug. 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C. building, here. About $28,000; $10 deposit required on plans and spec. Noted July 24.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Conn., New London—Distributing System—Spec. 3989—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids July 30, installing here, (1) work complete, from Lord Constr. Co., 105 West 40th St., New York City, (1) $248,319 (180 days), (2) $55,368, (3) $12,254, (4) $13,126, (5) $3100; Carroll Electric Co., 714 12th St., Wash., D. C., (1) $305,000 (180 days), (2) $43,000, (3) $19,000, (4) $24,000, (5) $2000; J. W. Danforth Co., 70 Ellicott St., Buffalo, N. Y., (1) $314,708 (180 days), (2) $56,821, (3) $20,149, (4) $21,500, (5) $4000. Noted July 3.

N. Y., New York—Garage—Spec. 3873—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids July 30, building at Field Medical Supply Depot, from Caye Constr. Co., 299 Bway., $61,200, (140 days), alternate $58,200 (140 days); Post & McCord, 101 Park Ave., $66,730 (150 days); Guarantee Constr. Co., 140 Cedar St., $68,527 (150 days). Noted May 1.

N. J., New Brunswick—Boiler—Treas. Dept., Wash., D. C., received bids Aug. 4, installing boiler in post office, here, from McFadden Plumbing & Heating Co., New Brunswick, $1400, (36 days); W. Wilby Selma, Ala., $1995 (Oct. 1st); Boston Heating Corp., New York City, $3425, (60 days). Noted July 24.

Md., Annapolis—Garage—Spec. 3988—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids July 30, building, here (1) work complete, from King Lumber Co., Charlottesville, Va., (1) $28,358 (120 days), (2) $25,858, (3) $700, (4) $700; S. R. Harris, 710 14th St., Wash., D. C., (1) $29,932, (2) $27,637, (3) $412, (4) $930;

Federal Government Work (Continued)

Piel Constr. Co., 2519 Edmonson Ave., Baltimore, (1) $39,747, (100 days), (2) $36,747, (3) $700, (4) $875. Noted June 26.

D. C., Wash.—Flushing System—Dist. Comrs., Dist. Bldg., received bids installing flushing system in Fish Market, from Federal Heating Co., 827 14th Ave., N. W., $2738; Carroll Electric Co., 714 12th St., $2960; Casey Constr. Co., 3207 14th St., N. W., $3497.

D. C., Wash.—Generator—Bd. of Awards, Dept. of Agriculture, received bids July 25, furnishing and installing 1 compound, 3 wire, direct current generator, from Westinghouse Electric & Mfg. Co., Hibbs Bldg., $11,219; Moore Steam Turbine Co., Wellsville, N. Y., $11,685; Kerr Turbine Co., Stock Exchange, Phila., $12,590.

D. C., Wash.—Sewers—Dist. Comrs., Dist. Bldg., received bids Aug. 4, building sewers as follows: (A) Illinois Ave., (B) 12th St., S. E. Relief Sewer; (C) Minnesota Ave. Trunk Sewer, (D) Scaggs Branch Trunk Sewer, (E) 9th St., N. E. Relief Sewer, (F) Piney Branch Trunk Sewer. (1) excav., (2) concrete masonry "E", (3) vitr. brick masonry, (4) sewer brick masonry, from

W. F. Brenizer Co., 101 New York Ave., N. E., (A1) $2.25, (A2) $15, (A3) $37, (A4) $27; (B1) $2.25 (B2) $14, (B3) $37, (B4) $27; (C1) $3.25, (C2) $17, (C3) $40, (C4) $30; (D1) $2.50 (D2) $15, (D3) $40, (D4) $30; (E1) $2.50, (E2) $15, (E3) $39, (E4) $28; (F1) $2.40, (F2) $16, (F3) $40, (F4) $29.

G. Hyman, 2209 F St., N. W., (A1) $1.75, (A2) $15, (A3) $40, (A4) $30; (B1) $4, (B2) $17, (B3) $40, (B4) $30; (C1) $3.40, (C2) $12, (C3) $30, (C4) $25; (D1) $2.50, (D2) $15, (D3) $40, (D4) $30; (E1) $3.50, (E2) $18, (E3) $40, (E4) $30; (F1) $2.50, (F2) $15, (F3) $40, (F4) $30.

Ryan Constr. Co., Baltimore, Md., (A1) $2.10, (A2) $16, (A3) $40, (A4) $25.

W. F. Cush, 3rd and R St., (B1) $3.30, (B2) $14.60, (B3) $45, (B4) $25; (E1) $3.50, (E2) $14.60, (E3) $44, (E4) $25.

A. C. Moses Constr. Co., 916 New York Ave., N. W., (C1) $3.78, (C2) $18.73, (C3) $40, (C4) $30.

Becker & Chapman, Baltimore, Md., (D1) $2.65, (D2) $16, (D3) $44, (D4) $24.

Contenental Contg. Co., 66 Knickerbocker Bldg., Baltimore, Md., (F1) $2.50, (F2) $16, (F3) $40, (F4) $25. Noted July 10.

D. C., Wash.—Sidewalks—Dist. Comrs., Dist. Bldg., received bids Aug. 4, laying 50,000 sq.yd. cement sidewalks, from Hyde & Baxter, Wash., (a) $2.48, (b) $2.68; W. F. Brenizer, 101 New York Ave., N. E., (a) $2.29, (b) $2.49. Noted July 24.

W. Va., South Charleston—Steel Sash—Spec. 3914—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids July 20, installing steel sash in various buildings, from Detroit Steel Products Co., East Grand Blvd. and Griffin St., Detroit, $124,929 (45 days); D. Lupton's Sons Co., Wilkins Bldg., Wash., D. C., $128,073 (75 days); Truscon Steel Co., Woodward Bldg., Wash., D. C., $129,800 (70 days). Noted July 17.

Tex., Galveston — Boathouse — Treas. Dept., Wash., D. C., received bid July 31, building boathouse at U. S. Quarantine Sta., here, from J. Jacobs, Galveston, $39,566. Noted July 10.

★Cal., Mare Island—Cranes—Spec. 3903—Bureau Yards & Docks, Navy Dept., Wash., let contract installing wall cranes in structural shop, here, to Cleveland Crane & Eng. Co., Wickliffe, O., A $103,000 (240 days); Manning, Maxwell & Moore, 119 West 40th St., New York City, B $94,876 (155 days). Noted July 10.

Miscellaneous

PROPOSED WORK

Park, etc.—Hartford, Conn.—A. W. Creedon, et al., 50 State St., plans to build amusement park to include swimming pool, dance pavilion, restaurant, theatre, etc., all fireproof, on Wethersfield Ave. About $400,000. Berenson & Moses, 1026 Main St., archts.

Swimming Pool—Hartford, Conn.—S. A. de Waltoff, 67 California St., West Haven, having plans prepared by Berenson & Moses, engrs. 1026 Main St., for rein.-con. swimming pool at Capitol Park on Wethersfield Ave. About $60,000. Noted July 31.

Garbage Incinerator—Syracuse, N. Y.—City plans to build garbage plant and incinerating plant, concrete and brick. About $50,000 each. H. C. Allen, city engr.

Tunnel—Detroit, Mich.—City and Dominion Govt. of Canada, c/o E. B. Winter, mayor, Windsor, Ont., had tentative plans prepared by W. H. Adams, engr., 1211 Vinton Bldg., Detroit, for double-barrel type highway tunnel under Detroit River, about 2600 ft. long with 6 vehicle elevators and 4 passenger elevators and memorial building entrance at each end. Proposed tunnel to be of 2 tube type with concrete lined tubes and raised foot walk in each tube at side of roadway.

Fire Protection System — Port Huron, Mich.—Holmes Fdry. Co., having plans prepared for fire protection system, involving installation of 1000 gal. per minute centrifugal pump, 100 lb. pressure with h.p. 200 volt direct current motor, automatic starter, compensator and all necessary wiring, 1 mi. extra heavy 10 in. c. i. pipe, 800 ft. 8 in. pipe, all laid on concrete base, pump house, intake, well and cribbing, at foot of Connor St. on St. Clair River. About $31,000.

Dock—St. Ignace, Mich.—Great Lakes Towing & Wrecking Co. plans to build rein.-con. dock, 80 x 100 ft. coal pocket, water filled pocket for timber storage warehouse, 50 x 75 ft. machine shop, marine railway supported by submerged concrete floor to be used in docking boats. Plans subject to approval of U. S. Government. A. J. Cunning, St. Ignace, engr.

Park Improvements — Wyandotte, Mich.—City having plans prepared by G. W. Graves, archt., 43 John R St., Detroit, for park covering 8 acres. Plans include filling with earth, grading paths and drives, concrete railings, lamp posts, retaining wall and walk, combined band stand, shelter and comfort station of rein.-con. M. L. Brown & Son, Chamber of Commerce, Detroit, engrs.

Pumping Machinery—Brainerd, Minn.—City rejected bids received July 8, for pumping machinery in connection with waterworks system. Work will be readvertised. L. P. Wolff, Guardian Life Bldg., St. Paul, engr. Noted June 26.

Shed—Smith Cove, Wash.—Port of Seattle, Seattle, soon lets contract building 118 x 1110 ft. concrete and timber transit shed at west end, here. Cost, including equipment, $200,000. G. H. Nicholson, Port of Seattle, Seattle, ch. port engr.

Dock, Etc.—Portland, Ore.—City plans to build dock, cost $5350, bunkers with 1050 cu.yd. capacity, $6200; also enlarge paving plant to 100,000 sq.yd. of pavement yearly, to include removing old plant to new location and building trackage, $5052, new equipment, $5000 and building new plant at foot of Jefferson St. O. Laurgaard, city engr.

Bulkhead—Seaside, Ore. — See "Buildings."

Pier—Balboa, Cal.—Chamber Commerce appointed committee to prepare preliminary plans and submit estimates for rein.-con. pleasure pier. About $50,000. H. B. Tudor, chn.

Pavilion—Huntington Beach, Cal.—City having plans prepared by J. C. Smith, archt., 325 H. W. Hellman Bldg., Los Angeles, for 1 story, 80 x 140 ft., rein.-con. and frame pavilion containing dance hall, concession booths, etc.; also rebuilding bathhouse, rein.-con. piling, concrete foundation. About $85,000.

Breakwater—Long Beach, Cal.—City having plans prepared for 1700 ft. rubble stone breakwater in front of seawall between Silver Spray pier and Golden Ave. F. Hoffman, city engr.

Breakwater — Margaree, N. S. — Dept. Pub. Wks., Ottawa, Ont., soon receives bids building breakwater here. About $20,000. E. Lafleur, Ottawa, engr.

Protection Works — Laprairie, Que. — Dept. Pub. Wks., Ottawa, Ont., soon receives bids completing protection works. About $82,000. E. Lafleur, Ottawa, Ont., engr.

Telephone and Telegraph Lines—British Columbia—Dept. Pub. Wks., Ottawa, Ont., appropriated $97,000 to build telephone and telegraph lines here.

Wharf—Cowichan Bay, B. C.—Dept. Pub. Wks., Ottawa, Ont., soon receives bids building wharf here. About $12,000. E. Lafleur, Ottawa, Ont., engr.

BIDS DESIRED

Bulkhead—Boston, Mass.—Until Aug. 9, by Comn. on Waterways & Pub. Lands, State House, building 1000 to 3700 lin.ft. timber bulkhead on Commonwealth Flats, East Boston. F. W. Hodgon, engr., advertised in this issue.

Tracks—Brooklyn, N. Y.—Until Aug. 19, by J. H. Delaney, comr. transit constr., 49 Lafayette St., New York City, furnishing and installing tracks for portion of Culver Rapid Transit R.R. extending over and along Shell Rd. and West 6th St. from point near Ave. X to Sheepshead Bay Rd.

Bulkhead—New York, N. Y.—Until Aug. 15, by M. Hurlburt, comr. docks, Pier A, Battery Pl., North River, furnishing labor and material for building bulkhead platform between East 79th and East 80th Sts., East River, Manhattan Boro. and for depositing riprap thereat.

Water and Electric Light Equipment—Aitkin, Minn.—L. Hallem, city comr., receiving bids furnishing 1 purifier, 1 water filter, one 150 h.p. corliss type steam engine, 1 electric generator, 125 kw. current, 1 coal conveyor and 50,000 gal. steel or wood water tank.

Foundation—Duluth, Minn.—Fidelity Investment Co., Lake Ave., S., receiving bids for foundation for 4 story, 114 x 252 ft. office. Total cost, $75,000. German & Jenssen, 410 Amer. Exch. Bank Bldg., archts.

Electric Light Extensions, Conduits, Etc.—Outremont, Que.—Until Aug. 10, by city, building electric light extensions, cost $13,000, underground conduits, $7500, poles, etc., $5000, gullies, $1000, burying cables, $15,000. I. Duchatel, engr.

Garbage Destructor—Outremont, Que.—Until Aug. 10, by city, building garbage destructor. About $20,000. I. Duchatel, engr.

Railway Ties—Toronto, Ont.—Until Aug. 25, by E. Langham, genl. purch. agt., Canadian Natl. R.R., for 1,375,000 railway ties, to be delivered on Canadian Natl. lines, 1,000,000 between Port Arthur and Pembroek, 50,000 in Central Ontario, 25,000 between Ottawa and Quebec, 200,000 between O'Brien and Quebec and 100,000 in Lake St. John Dist.

Wharf—Dauphin, Man.—Until Aug. 19, by Dept. Pub. Wks., Ottawa, Ont., building crib wharf in front of government fish hatchery, Dauphin River, Selkirk Co. About $11,000. E. Lafleur, Ottawa, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Suspension Line — Hartford, Conn. — Hartford Electric Light Co., 266 Pearl St., let contract placing high tension suspension line across Connecticut River, below Dutch Point, to F. T. Ley, 495 Main St., Springfield, Mass. About $50,000.

★Penstock—Potsdam, N. Y.—St. Lawrence Transmission Co., Colton, will rebuild 600 ft. 16 ft. wood penstock which recently collapsed, causing about $30,000 damage. Work will be done by day labor.

★Waterproofing — Utica, N. Y. — Bd. Supervs. Oneida Co. let contract waterproofing county court house here, to Obelisk Waterproofing Co., 1 Madison Ave., New York City. About $28,250.

★Subway Walls—Erie, Pa.—City let contract building Division St. subway walls, to W. Bancroft, Jr. About $10,525. Noted June 5.

★Ovens—Phillipsburg, Pa.—Hagerty Baking Co. let contract building ovens, to Gearhart Constr. Co., Phillipsburg. About $30,000.

★Cast Iron Pipe—Detroit, Mich.—Dept. Purchases & Supplies, Municipal Courts Bldg., let contract furnishing 3115 tons c. i. pipe, to Camden Iron Wks., Line St. and Coopers Creek, Camden, $50.60 per ton. Noted May 29.

★Pavilion — Spokane, Wash. — Spokane Union Stock Yards Co., Union Stock Yards, let contract building 1 story, concrete and frame pavilion, to Meyers & Telander, Hutton Bldg. About $50,000.

★Dam—San Francisco, Cal.—Bd. Pub. Wks. let contract building Hetch Hetchy Dam, siphon spillway type, to Utah Constr. Co., Eccles Bldg., Ogden, Utah, $5,447,800. Contractor to furnish cement. Noted July 17.

★Wharf—St. Michel de Bellechasse, Que.—Dept. Pub. Wks., Ottawa, Ont., let contract removing and rebuilding wharf, to J. B. Gallibois, St. Pierre, $32,422. Noted June 19.

★Pier—Port Hope, Ont.—Dept. Pub. Wks., Ottawa, let contract repairing pier here, to R. Brewder, Cobourg, $11,565.